

5173

**REMEDIAL INVESTIGATION REPORT FOR
OPERABLE UNIT 2 VOLUME 4 OF 6 APPENDICES
C & D DRAFT FEBRUARY 1994**

02/18/94

**DOE-FN/EPA
1071
REPORT
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REMEDIAL INVESTIGATION REPORT FOR OPERABLE UNIT 2

**FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO**

REMEDIAL INVESTIGATION AND FEASIBILITY STUDY

**VOLUME 4 OF 6
APPENDICES C AND D**



FEBRUARY 1994

**U.S. DEPARTMENT OF ENERGY
FERNALD FIELD OFFICE**

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KEY TO DATA TABLES

FLTD Filtered Status of the Sample (applies to water samples)

- FILT Filtered sample; filtered status identified on Request for Analysis/Chain of Custody
- UNFI Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody
- *F Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.
- *U Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.
- UNKN Unknown; filtered status could not be determined.

L Analytical Support Level (ASL)

The analytical support level for sample analyses and data validation, defined as follows:

- A *Qualitative Field Analysis* - Analogous to EPA analytical level 1.
- B *Qualitative, Semi-Quantitative, and Quantitative Analyses* - Analogous to EPA analytical level 2.
- C *Quantitative with fully defined QA/QC* - Laboratory analyses generated with full QA/QC checks of types and frequencies specified for ASL D according to FEMP-specified analytical protocols for radiological and nonradiological parameters. The analytical methods are identical to ASL D for QA/QC sample analysis and method performance criteria. However, the data package does not typically contain raw instrument output but does include summaries of QA/QC sample results. Laboratories are required to retain, in the project file, raw instrument data to upgrade ASL C reports to ASL D. Analogous to EPA analytical level 3.
- D *Confirmational with complete QA/QC and reporting* - Provides data generated with a full complement of QA/QC checks of specified types and frequencies according to FEMP-specified analytical protocols for radiological and nonradiological parameters. Analogous to EPA analytical level 4.
- E *Nonstandard* - Analyses by nonstandard protocols that often require method development or validation. Analogous to EPA analytical level 5.

NOTE: The number 3 is sometimes used to indicate ASL C. Likewise, the numbers 4 and 5 are sometimes used to indicate ASLs D and E, respectively.

VQ Data Validation Qualifier

- J Analyte was analyzed for and positively identified, but the associated numerical value may not be consistent with the amount present in the environmental sample.

KEY TO DATA TABLES
(continued)**VQ Data Validation Qualifier (continued)**

- N Analysis indicates that an analyte is present and there are strong indications that the identity is correct.
- R Data are unusable for any purpose. Analyte was analyzed for, but the presence or absence of the analyte was not verified.
- U Analyte was analyzed for and was not present above the level of the associated value. Associated numerical value indicates the approximate concentration necessary to detect the analyte in the sample.
- UJ This is a combination of the U and J qualifiers. Analyte was analyzed for and was not present above the level of the associated value. The associated value may not accurately or precisely represent the concentration necessary to detect the analyte in the sample.
- No data validation qualifier assigned.

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TABLE C-1A

**SOLID WASTE LANDFILL
SUMMARY OF RI/FS SAMPLE COLLECTION ACTIVITIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

Location	Sample No.	Date Collected	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/ PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
SURFACE WATER												
ASIT-021	001160	2/21/89	X ^e	-	-	-	-	-	-	-	-	-
	001161		X	-	-	X	X	X	X	X	-	-
GROUNDWATER SAMPLES												
1035	003245	5/25/88	X	-	-	-	-	-	X	X	-	-
	003560	8/11/88	X	-	-	-	-	-	X	X	-	-
	003736	11/15/88	X	-	-	-	-	-	X	X	-	-
	003931	2/5/89	X	-	-	-	-	-	X	X	-	-
	066826	1/6/90	X	-	-	-	-	-	-	-	-	-
1038	003183	5/11/88	X	-	-	-	-	-	X	X	-	-
	003518	8/22/88	X	-	-	-	-	-	X	X	-	-
	003762	11/20/88	X	-	-	-	-	-	X	X	-	-
	003947	2/5/89	X	-	-	-	-	-	X	X	-	-
	066431	6/18/89	X	-	-	-	X	-	X	X	-	-
	066495	8/13/89	X	-	-	-	X	-	X	X	-	-
	066666	11/21/89	X	-	-	-	-	-	-	-	-	-
1719	047006	6/9/92	Total Uranium only	-	-	-	X	-	X	X	-	-
2027	003168	5/9/88	X	-	-	X	X	X	X	X	-	-
	003453	8/10/88	X	-	-	-	-	-	X	X	-	-
	003454 (duplicate of 003453)	8/10/88	X	-	-	-	-	-	X	X	-	-
	003731	12/1/88	X	-	-	-	-	-	X	X	-	-
	003941	3/8/89	X	-	-	-	-	-	X	X	-	-

See footnotes at end of table

TABLE C-1A
(Continued)

Location	Sample No.	Date Collected	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/ PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
GROUNDWATER SAMPLES (Continued)												
2027 (continued)	066447	6/27/89	X	-	-	-	X	-	X	X	-	-
	066580	9/10/89	X	-	-	-	-	-	X	-	-	-
	066581 (duplicate of 006580)	9/10/89	X	-	-	-	-	-	X	-	-	-
	066599	9/10/89	-	X	-	X	X	X	sulfide only	X	-	-
	066600 (duplicate of 066599)	9/10/89	-	X	-	X	X	X	sulfide only	X	-	-
	066708	11/16/89	X	-	-	-	-	-	-	-	-	-
	066742 (duplicate of 066708)	11/16/89	X	-	-	-	-	-	-	-	-	-
2037	003248	6/1/88	X	-	X	X	X	X	X	X	-	-
	003249 (duplicate of 003248)	6/1/88	X	-	X	X	X	X	X	X	-	-
	003448	8/8/88	X	-	-	-	-	-	X	X	-	-
	003718	11/18/88	X	-	-	-	-	-	X	X	-	-
	003917	2/22/89	X	-	-	-	-	-	X	X	-	-
	066461	6/28/89	X	-	-	-	X	-	X	X	-	-
	066540	8/25/89	X	-	-	-	-	-	X	-	-	-
	066570	8/25/89	-	X	X	X	X	X	sulfide only	X	-	-
	066710	11/19/89	X	-	-	-	-	-	-	-	-	-
2052	003587	9/13/88	X	-	X	X	X	X	X	X	-	-
	003476 (duplicate of 003791)	12/16/88	X	-	-	-	-	-	X	X	-	-
	003791	12/16/88	X	-	-	-	-	-	X	X	-	-
	003892	2/8/89	X	-	-	-	-	-	X	X	-	-
	066847	1/4/90	X	-	-	-	-	-	-	-	-	-
3037	003152	5/5/88	X	-	-	-	-	-	X	X	-	-
	003447	8/8/88	X	-	-	-	-	-	X	X	-	-
	003717	11/18/88	X	-	-	-	-	-	X	X	-	-
	003916	2/22/89	X	-	-	-	-	-	X	X	-	-

See footnotes at end of table

TABLE C-1A
(Continued)

Location	Sample No.	Date Collected	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/ PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
GROUNDWATER SAMPLES (Continued)												
3037 (continued)												
3037 (continued)	066462	6/28/89	X	-	-	-	X	-	X	X	-	-
	066541	8/25/89	X	-	-	-	-	-	X	-	-	-
	066571	8/25/89	-	X	X	X	X	X	sulfide only	X	-	-
	066712	11/19/89	X	-	-	-	-	-	-	-	-	-
	066928	8/27/90	-	-	-	-	X	X	-	-	-	-
IN-SITU LEACHATE SAMPLES												
Trench 1	039151	7/7/92	X	X	X	X	X	X	X	X	-	-
Trench 2	039160	7/15/92	X	X	X	X	X	X	X	X	-	-
	039163	7/16/92	X	X	X	X	X	X	X	X	-	-
Trench 3	039165	7/16/92	-	-	-	X	-	X	-	-	-	-
Trench 3	039155	7/13/92	X	X	X	X	X	X	X	X	-	-
SEDIMENT SAMPLES												
ASIT-021	009100	0-0.5	Total Uranium, Radium-226, Radium-228, Gross Alpha/ Beta only	-	-	-	-	-	-	-	-	-
SUBSURFACE SAMPLES												
1035	008388	21.0-22.5	X	-	-	-	-	-	-	-	-	-
1718	067266	1.5-3.0	X	-	-	-	-	-	-	-	-	-
	067267	3.0-4.5	-	-	X	-	-	-	-	-	-	-
	067271	7.5-9.0	-	-	X	-	-	-	-	-	-	-

See footnotes at end of table

TABLE C-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/ PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
SUBSURFACE SAMPLES (Continued)												
1718 (continued)	067275	9.0-10.5	X	-	-	-	-	-	-	-	-	-
	067278	13.5-15.0	-	-	X	-	-	-	-	-	-	-
	067279	15.0-16.5	X	-	-	-	-	-	-	-	-	-
1719	067286	1.5-3.0	X	-	-	-	-	-	-	-	-	-
	067287	3.0-4.5	-	-	X	X	X	X	sulfide only	X	-	-
	067292	10.5-12.0	X	-	-	-	-	-	-	-	-	-
	067295	15.0-16.5	-	X	X	X	X	X	-	X	-	-
	067296	16.5-18.0	X	-	-	-	-	-	-	-	-	-
	067300	18.0-19.5	-	-	X	X	X	X	sulfide only	X	-	-
	067301	composite	-	-	-	-	-	-	-	-	-	X
1720	067306	1.5-3.0	X	-	-	-	-	-	-	-	-	-
	067307	3.0-4.5	-	-	X	X	X	X	-	X	-	-
	067309	6.0-7.5	-	-	-	-	-	-	-	-	-	organics only
	067310	7.5-9.0	X	-	-	-	-	-	-	-	-	-
	067311	7.5-9.0	-	X	X	X	X	X	-	X	-	-
	067312	9.0-10.5	-	-	X	X	X	X	-	X	-	-
	067313	9.0-10.5	X	-	-	-	-	-	-	-	-	-
1721	067318	composite	-	-	-	-	-	-	-	-	-	X
	067230	3.0-4.5	X	-	-	-	-	-	-	-	-	-
	067233	7.5-9.0	X	-	-	-	-	-	-	-	-	-

See footnotes at end of table

TABLE C-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/ PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
SUBSURFACE SAMPLES (Continued)												
1721 (continued)	067234	9.0-10.5	-	X	X	X	X	X	sulfide only	X	-	-
	067236	12.0-13.5	-	-	-	-	-	-	-	-	X	-
	067237	13.5-15.0	-	-	X	X	X	X	-	X	-	-
	067238	15.0-16.5	X	-	-	-	-	-	-	-	-	-
	067245	composite	-	-	-	-	-	-	-	-	-	X
1722	067250	1.5-3.0	-	-	X	X	X	X	-	X	-	-
	067251	3.0-4.5	X	-	-	-	-	-	-	-	-	-
	067253	6.0-7.5	-	-	-	-	-	-	-	-	X	-
	067256	11.0-12.5	-	-	-	-	-	-	-	-	X	-
	067257	11.0-12.5	X	-	-	-	-	-	-	-	-	-
	067258	12.5-14.0	X	-	-	-	-	-	-	-	-	-
	067259	14.0-16.5	-	-	X	X	X	X	-	X	-	-
	067261	composite	-	-	-	-	-	-	-	-	-	X
1808	067393	1.5-3.0	X	-	-	-	-	-	-	-	-	-
	067394	3.0-4.5	-	-	X	X	X	X	-	X	-	-
	067395	4.5-6.0	-	-	-	-	-	-	TOC only	-	-	-
	067396	7.5-9.0	-	X	X	X	X	X	sulfide only	X	-	-
	067397	9.0-10.5	-	-	-	-	-	-	-	-	-	X
	067398	10.5-12.0	X	-	-	-	-	-	-	-	-	-
	067400	13.5-15.0	X	-	-	-	-	-	-	-	-	-
	067401	15.0-16.5	-	-	X	X	X	X	-	X	-	-

See footnotes at end of table

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TABLE C-1A
(Continued)

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/ PCB ^a	VOC ^b	SVOC ^c	General Chem.	Metals	EP Toxicity	TCLP ^d
SUBSURFACE SAMPLES (Continued)												
1808 (continued)	067402	0.0-12.75	-	-	-	-	-	-	-	-	-	X
	067405	10.5-12.0	-	-	-	-	-	-	TOC only	-	-	-
	067406	13.5-15.0	-	-	-	-	-	-	TOC only	-	-	-
1888	067714	0.0-1.5	-	-	X	X	X	X	TOC only	X	-	-
	067717	5.0-6.0	-	X	X	X	X	X	-	X	-	-
	067718	6.0-7.5	X	-	-	-	-	-	TOC only	-	-	-
	067719	6.0-7.5	-	-	-	-	-	-	-	-	-	organics only
1889	067740	15.5-17.5	-	-	X	X	X	X	TOC only	X	-	-
3037	007968	22.5-24.0	X	-	-	-	-	-	-	-	-	-
	008107	45.0-46.5	X	-	-	-	-	-	-	-	-	-
	008117	95.0-96.5	X	-	-	-	-	-	-	-	-	-

^aPest/PCB = Pesticide/Polychlorinated Biphenyl

^bVOC = Volatile Organic Compound

^cSVOC = Semivolatile Organic Compound

^dTCLP = Toxicity Characteristic Leaching Procedure

^eX = Sample analyzed for parameters indicated

^fSample not analyzed for this parameter

^gSample interval is depth, in feet, below the ground surface.

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TABLE C-1B

SOLID WASTE LANDFILL
SUMMARY OF RI/FS SAMPLE COLLECTION ACTIVITIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Monitoring Well or Sample Location	Sample Numbers	Target Analyte List 20.03.05	
		Total Uranium Screening A	Full HSL, Gen. GW Qual., Full Rad. B
SURFACE WATER SAMPLES			
SWL-SW-01	111289		X
	111290	X	
SWL-SW-02	111291		X
	111292	X	
1947 ^b	111651	X	
GROUNDWATER SAMPLES			
1035	111552		X
	111553 ^b		X ^d
	111554	X	
	111555 ^b	X	
1038	111548		X
	111549 ^b		X ^d
	111550	X	
	111551 ^b	X	
1719		X	X
1947	111650	X	
	120488 ^b	X	
1950	115480		X
	115481 ^b		X ^h
	115485	X	
1952	115468		X
	115469	X	
	115471 ^b		X ^h
1985 ^b	111439 (4.0 - 8.0)	X	
2027	111543		X
	111544	X	

See footnotes at end of table

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TABLE C-1B
(Continued)

Monitoring Well or Sample Location	Sample Numbers	Target Analyte List 20.03.05	
		Total Uranium Screening A	Full HSL, Gen. GW Qual., Full Rad. B
GROUNDWATER SAMPLES (Continued)			
2037	111540		X
	111541	X	
2052	111546		X
	111547	X	
2947	111572 ^b (duplicate of 115473)		X
	111573 ^b (duplicate of 115474)	X	
	111574 ^b (duplicate of 115475)		X ^h
	115473		X
	115474	X	
2949	115475 ^b		X ^h
	111490	X	
	111489		X
2951	115479 ^b		X ^h
	111536		X
	111538	X	
2953	115478 ^b		X ^h
	115488		
	115490	X	
11037 ^b	115374 (21.0 - 22.0)	X	
11039 ^b	115388 (8.0 - 10.0)	X	
11040 ^b	115398 (25.0 - 30.0)	X	

{ See footnotes at end of table

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TABLE C-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05							
			Screening		Chem/Rad		RCRA/Geotechnical			
			A	C	D	E	F	G	H	J
SEDIMENT SAMPLES										
SWL-SD-01	111328	0.0 - 0.5		X						
	111495 ^b		X							
	111496 ^b		X							
	111497 ^b		X							
	111498 ^b		X							
SWL-SD-02	111325	0.0 - 0.5		X						X
	111334				TOC					
	111500				SA,HA					
SURFACE SAMPLES										
SWL-SS-01	111293	0.0 - 0.5		X						
SWL-SS-02	111297	0.0 - 0.5		X						X
	111499				SA,HA,W					
SWL-SS-03	111298	0.0 - 0.5		X						
SWL-SS-04	111300	0.0 - 0.5		X						
SWL-SS-05	111301	0.0 - 0.5		X						
SWL-SS-06	111303	0.0 - 0.5		X						
SWL-SS-07	111304	0.0 - 0.5		X						
SWL-SS-08	111492	0.0 - 0.5		X						
SWL-SS-09	111307	0.0 - 0.5		X						
SWL-SS-10	111309	0.0 - 0.5		X						
SWL-SS-11	111310	0.0 - 0.5		X						
SWL-SS-12	111312	0.0 - 0.5		X						
SUBSURFACE SAMPLES										
1947	111639	6.0 - 8.0							UC	X
	111640	8.0 - 10.0				X ^g				
	111648				TOC					
	111649		X							
	111647 ^b	19.0 - 20.5	X							
1950	111682	2.0 - 4.0						UC		X
	111683	4.0 - 6.0			X ^g					
	111684				TOC					

See footnotes at end of table

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TABLE C-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05							
			Screening	Chem/Rad	RCRA/Geotechnical					
			A	C	D	E	F	G	H	J
SUBSURFACE SAMPLES (Continued)										
1990	115331	6.0 - 9.0			TOC					
	115332 ^a	9.0 - 10.0			X ^g					
	115333 ^a				TOC					
	115334	10.0 - 12.0							X	
	115325					X				X
	115335	17.5 - 20.0		X						
	115336				X ^g					
	115337				TOC					
1991	115326 ^a	20.0 - 22.0				X	X			X
	115319 ^a	7.5 - 10.0		X						
	115320 ^a								X	
1992	115321	12.5 - 15.0		X						
	115348	3.0 - 5.0								X
	115343 ^a	7.5 - 10.0		X						
	115344 ^a				X ^g					
	115345 ^a				TOC					
1993	115346 ^a	17.5 - 20.0		X						
	115339 ^b	2.5 - 5.0		X						
		10.0 - 10.5			X					
2947	115340	15.0 - 17.5		X						
	111384	60.0 - 78.0	X							
2949	111193	4.0 - 6.0	X							
	111194				X ^g					
		6.0 - 8.0							UC	X
		12.0 - 14.0							UC	X
	111206	14.0 - 16.0	X							
	111207				X ^g					
2951	111432 ^b	0.0 - 5.0		X ^m						X ⁿ
	111433 ^b		X							
	111431	60.0 - 78.0	X							

See footnotes at end of table

TABLE C-1B
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05							
			Screening	Chem/Rad	RCRA/Geotechnical					
			A	C	D	E	F	G	H	J
SUBSURFACE SAMPLES (Continued)										
2953	115460	60.0 - 75.0	X							
11036 ^b	115380	17.0 - 19.0		X						
	115381	2.5 - 5.0		X						
11037 ^b	115371	5.0 - 7.5		X						
	115372	17.5 - 20.0		X						
11038 ^b	115376	0.0 - 2.5		X						
	115377	12.5 - 15.0		X						
11039 ^b	115384	2.5 - 5.0		X						
	115385	12.0 - 14.0		X						
11040 ^b	115392	2.5 - 5.0		X						
	115393	12.5 - 15.0		X						
11041 ^b	115389	0.0 - 2.5		X						
	115390	12.5 - 15.0		X						

See footnotes at end of table

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TABLE C-1B
(Continued)**TARGET ANALYTE LIST DETAILS:**

[A] Water/Soil - Total Uranium	[E] CON=Consolidation Test
[B] Water - Full Hazardous Substance List (HSL), Full Rad., General Groundwater Quality Parameters	[F] HC=Hydraulic Conductivity
[C] Soil/Sediment/Sludge/Waste - Full HSL, Full Rad.	[G] <u>Strength Tests</u> UC=Unconfined Compression CIU=Consolidated Isotropic Undrained Triaxial
[D] <u>Classification Tests</u> SG=Specific Gravity W=Water Content LL=Liquid Limit PL=Plastic Limit <u>Grain Size</u> SA=Sieve Analysis HA=Hydrometer Analysis <u>Other</u> TOC=Total Organic Carbon	[H] Toxicity Characteristic Leaching Procedure (TCLP) [J] Dry Unit Weight

NOTE: X = Sample analyzed for parameters indicated, except where shaded.

The shaded areas represent samples or analyses that were specified in the Sampling and Analysis Plan (SAP) but were not collected or performed. These differences may be due to field conditions (e.g., dry well) or laboratory variances (e.g., missed holding time).

^aSubstitute samples for samples specified in the SAP

^bAdditional samples not specified in the SAP

^cTAL B or C without Rad.

^dTAL B or C with Full Rad., metals, and cyanide only

^eTAL B or C with Full Rad. only

^fTAL B or C without volatile organic compounds (VOCs)

^gTAL B or D without total organic carbon (TOC)

^hUnfiltered metals and Full Rad. only

ⁱTotal uranium, thorium, and radium

^jVOCs, semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and pesticides only

^kSVOCs, PCBs, and pesticides only

^lFull Rad., VOCs, metals, and cyanide only

^mVOCs only

ⁿMetals only

^oTotal uranium, total thorium, isotopic uranium, and isotopic thorium

^pPPCBs and pesticides only

TABLE C-2A
SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SURFACE SOIL
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS							
SWL-SS-01	111293	0 - .5	01-APR-93	Calcium	69100.000	J	5296.781 mg/kg
SWL-SS-01	111293	0 - .5	01-APR-93	Magnesium	22400.000	-	1460 mg/kg
SWL-SS-01	111293	0 - .5	01-APR-93	Silver	4.300	-	0 mg/kg
SWL-SS-01	111293	0 - .5	01-APR-93	Sodium	117.000	-	55.145 mg/kg
SWL-SS-01	111293	0 - .5	01-APR-93	Zinc	83.400	J	58.5 mg/kg
SWL-SS-02	111297	0 - .5	01-APR-93	Calcium	36100.000	J	5296.781 mg/kg
SWL-SS-02	111297	0 - .5	01-APR-93	Magnesium	9660.000	-	1460 mg/kg
SWL-SS-02	111297	0 - .5	01-APR-93	Sodium	91.600	-	55.145 mg/kg
SWL-SS-02	111297	0 - .5	01-APR-93	Silver	5.100	-	0 mg/kg
SWL-SS-02	111297	0 - .5	01-APR-93	Molybdenum	5.300	J	0 mg/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Calcium	112000.000	J	5296.781 mg/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Copper	30.700	-	15.7 mg/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Magnesium	37900.000	-	1460 mg/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Molybdenum	4.400	J	0 mg/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Sodium	206.000	-	55.145 mg/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Silver	4.100	-	0 mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Aluminum	13800.000	J	13125.282 mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Copper	19.900	-	15.7 mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Beryllium	.720	-	.6 mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Molybdenum	7.300	J	0 mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Vanadium	34.900	-	33.693 mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Sodium	149.000	-	55.145 mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Silver	7.000	-	0 mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Potassium	1700.000	-	1349.53 mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Magnesium	18800.000	-	1460 mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Calcium	71900.000	J	5296.781 mg/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Barium	95.700	-	88.5 mg/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Calcium	66600.000	J	5296.781 mg/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Sodium	118.000	-	55.145 mg/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Silver	5.500	-	0 mg/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Potassium	1490.000	-	1349.53 mg/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Molybdenum	6.100	J	0 mg/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Magnesium	18200.000	-	1460 mg/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Copper	57.600	-	15.7 mg/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Calcium	64800.000	J	5296.781 mg/kg

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FEMP-OU02-4 DRAFT
February 18, 1994

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TABLE C-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>METALS (Continued)</u>							
SWL-SS-06	111303	0 - .5	01-APR-93	Sodium	133.000	-	55.145 mg/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Silver	4.700	-	0 mg/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Potassium	1740.000	-	1349.53 mg/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Molybdenum	5.300	J	0 mg/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Magnesium	32800.000	-	1460 mg/kg
SWL-SS-07	111304	0 - .5	02-APR-93	Calcium	77000.000	J	5296.781 mg/kg
SWL-SS-07	111304	0 - .5	02-APR-93	Magnesium	20800.000	-	1460 mg/kg
SWL-SS-07	111304	0 - .5	02-APR-93	Sodium	113.000	-	55.145 mg/kg
SWL-SS-07	111304	0 - .5	02-APR-93	Silver	3.100	-	0 mg/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Barium	98.700	-	88.5 mg/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Magnesium	21100.000	-	1460 mg/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Copper	32.200	-	15.7 mg/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Calcium	79400.000	-	5296.781 mg/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Zinc	80.500	-	58.5 mg/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Sodium	143.000	-	55.145 mg/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Silver	4.300	-	0 mg/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Molybdenum	4.900	-	0 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Aluminum	15900.000	J	13125.282 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Barium	101.000	-	88.5 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Beryllium	.850	-	.6 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Vanadium	42.600	-	33.693 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Sodium	86.300	-	55.145 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Silver	7.100	-	0 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Potassium	1750.000	-	1349.53 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Molybdenum	6.400	J	0 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Magnesium	7120.000	-	1460 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Lead	33.300	-	29.575 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Copper	18.700	-	15.7 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Chromium	18.900	-	17.057 mg/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Calcium	21600.000	J	5296.781 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Aluminum	18400.000	J	13125.282 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Barium	96.700	-	88.5 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Chromium	19.900	-	17.057 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Calcium	6970.000	J	5296.781 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Beryllium	.970	-	.6 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Vanadium	46.000	-	33.693 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Sodium	67.900	-	55.145 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Silver	7.400	-	0 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Potassium	1800.000	-	1349.53 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Molybdenum	6.400	J	0 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Magnesium	4330.000	-	1460 mg/kg
SWL-SS-10	111309	0 - .5	02-APR-93	Copper	18.600	-	15.7 mg/kg
SWL-SS-11	111310	0 - .5	02-APR-93	Calcium	81200.000	J	5296.781 mg/kg

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TABLE C-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND	UNITS
<u>METALS (Continued)</u>									
SWL-SS-11	111310	0 - .5	02-APR-93	Molybdenum		4.600	J	0	mg/kg
SWL-SS-11	111310	0 - .5	02-APR-93	Magnesium	29800.000	-	1460	mg/kg	
SWL-SS-11	111310	0 - .5	02-APR-93	Sodium		137.000	-	55.145	mg/kg
SWL-SS-11	111310	0 - .5	02-APR-93	Silver		4.400	-	0	mg/kg
SWL-SS-12	111312	0 - .5	02-APR-93	Beryllium		.630	-	.6	mg/kg
SWL-SS-12	111312	0 - .5	02-APR-93	Molybdenum		5.000	J	0	mg/kg
SWL-SS-12	111312	0 - .5	02-APR-93	Sodium	65.600	-	55.145	mg/kg	
SWL-SS-12	111312	0 - .5	02-APR-93	Silver		4.900	-	0	mg/kg
SWL-SS-12	111312	0 - .5	02-APR-93	Magnesium	8280.000	-	1460	mg/kg	
SWL-SS-12	111312	0 - .5	02-APR-93	Cadmium		.850	-	.77	mg/kg
SWL-SS-12	111312	0 - .5	02-APR-93	Calcium	25500.000	J	5296.781	mg/kg	
<u>RADIONUCLIDES</u>									
SWL-SS-01	111293	0 - .5	01-APR-93	SR-90		.580	J	0	pCi/g
SWL-SS-01	111293	0 - .5	01-APR-93	TH-230		2.210	-	2.112	pCi/g
SWL-SS-01	111293	0 - .5	01-APR-93	U-234		5.940	-	1.319	pCi/g
SWL-SS-01	111293	0 - .5	01-APR-93	U-TOTAL		39.800	-	3.24	mg/kg
SWL-SS-01	111293	0 - .5	01-APR-93	U-238		13.600	-	1.27	pCi/g
SWL-SS-01	111293	0 - .5	01-APR-93	U-235/236		.512	J	.181	pCi/g
SWL-SS-02	111297	0 - .5	01-APR-93	NP-237		.115	N	0	pCi/g
SWL-SS-02	111297	0 - .5	01-APR-93	PU-238		.057	J	0	pCi/g
SWL-SS-02	111297	0 - .5	01-APR-93	PU-239/240		.019	J	0	pCi/g
SWL-SS-02	111297	0 - .5	01-APR-93	U-TOTAL		114.000	-	3.24	mg/kg
SWL-SS-02	111297	0 - .5	01-APR-93	U-238		34.600	-	1.27	pCi/g
SWL-SS-02	111297	0 - .5	01-APR-93	U-235/236		.816	-	.181	pCi/g
SWL-SS-02	111297	0 - .5	01-APR-93	U-234		13.500	-	1.319	pCi/g
SWL-SS-02	111297	0 - .5	01-APR-93	TH-230		3.740	-	2.112	pCi/g
SWL-SS-02	111297	0 - .5	01-APR-93	SR-90		1.230	J	0	pCi/g
SWL-SS-03	111298	0 - .5	01-APR-93	NP-237		.147	N	0	pCi/g
SWL-SS-03	111298	0 - .5	01-APR-93	PU-238		.095	J	0	pCi/g
SWL-SS-03	111298	0 - .5	01-APR-93	U-TOTAL		194.000	-	3.24	mg/kg
SWL-SS-03	111298	0 - .5	01-APR-93	U-238		63.800	-	1.27	pCi/g
SWL-SS-03	111298	0 - .5	01-APR-93	U-235/236		1.920	-	.181	pCi/g
SWL-SS-03	111298	0 - .5	01-APR-93	U-234		33.100	-	1.319	pCi/g
SWL-SS-03	111298	0 - .5	01-APR-93	TH-230		3.240	-	2.112	pCi/g
SWL-SS-03	111298	0 - .5	01-APR-93	RA-228		1.280	-	1.17	pCi/g
SWL-SS-03	111298	0 - .5	01-APR-93	PU-239/240		.085	J	0	pCi/g
SWL-SS-04	111300	0 - .5	01-APR-93	PU-238		.207	J	0	pCi/g
SWL-SS-04	111300	0 - .5	01-APR-93	TH-232		2.500	-	1.469	pCi/g
SWL-SS-04	111300	0 - .5	01-APR-93	U-TOTAL		90.800	-	3.24	mg/kg
SWL-SS-04	111300	0 - .5	01-APR-93	U-238		29.000	-	1.27	pCi/g
SWL-SS-04	111300	0 - .5	01-APR-93	U-235/236		1.260	-	.181	pCi/g
SWL-SS-04	111300	0 - .5	01-APR-93	U-234		22.200	-	1.319	pCi/g
SWL-SS-04	111300	0 - .5	01-APR-93	TH-TOTAL		22.800	-	10.7	mg/kg

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TABLE C-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND	UNITS
<u>RADIONUCLIDES (Continued)</u>									
SWL-SS-04	111300	0 - .5	01-APR-93	TH-230	2.140	-	2.112	pCi/g	
SWL-SS-04	111300	0 - .5	01-APR-93	TH-228	2.330	-	1.519	pCi/g	
SWL-SS-04	111300	0 - .5	01-APR-93	SR-90	1.090	J	0	pCi/g	
SWL-SS-04	111300	0 - .5	01-APR-93	RA-228	2.990	-	1.17	pCi/g	
SWL-SS-05	111301	0 - .5	01-APR-93	NP-237	.194	N	0	pCi/g	
SWL-SS-05	111301	0 - .5	01-APR-93	U-TOTAL	143.000	-	3.24	mg/kg	
SWL-SS-05	111301	0 - .5	01-APR-93	U-238	49.400	-	1.27	pCi/g	
SWL-SS-05	111301	0 - .5	01-APR-93	U-235/236	3.330	-	.181	pCi/g	
SWL-SS-05	111301	0 - .5	01-APR-93	U-234	48.900	-	1.319	pCi/g	
SWL-SS-05	111301	0 - .5	01-APR-93	TH-TOTAL	11.400	-	10.7	mg/kg	
SWL-SS-05	111301	0 - .5	01-APR-93	RA-226	1.590	-	1.528	pCi/g	
SWL-SS-05	111301	0 - .5	01-APR-93	RA-228	1.300	-	1.17	pCi/g	
SWL-SS-05	111301	0 - .5	01-APR-93	PU-239/240	.126	J	0	pCi/g	
SWL-SS-05	111301	0 - .5	01-APR-93	TH-230	9.610	-	2.112	pCi/g	
SWL-SS-05	111301	0 - .5	01-APR-93	PU-238	.072	J	0	pCi/g	
SWL-SS-06	111303	0 - .5	01-APR-93	PU-238	.049	J	0	pCi/g	
SWL-SS-06	111303	0 - .5	01-APR-93	U-238	2.430	-	1.27	pCi/g	
SWL-SS-06	111303	0 - .5	01-APR-93	U-TOTAL	9.770	J	3.24	mg/kg	
SWL-SS-06	111303	0 - .5	01-APR-93	U-234	1.830	-	1.319	pCi/g	
SWL-SS-06	111303	0 - .5	01-APR-93	SR-90	.789	J	0	pCi/g	
SWL-SS-07	111304	0 - .5	02-APR-93	NP-237	.046	N	0	pCi/g	
SWL-SS-07	111304	0 - .5	02-APR-93	U-TOTAL	6.860	J	3.24	mg/kg	
SWL-SS-07	111304	0 - .5	02-APR-93	U-238	2.340	-	1.27	pCi/g	
SWL-SS-07	111304	0 - .5	02-APR-93	U-234	1.430	-	1.319	pCi/g	
SWL-SS-07	111304	0 - .5	02-APR-93	SR-90	1.050	J	0	pCi/g	
SWL-SS-07	111304	0 - .5	02-APR-93	PU-238	.023	J	0	pCi/g	
SWL-SS-08	111492	0 - .5	19-APR-93	NP-237	.075	N	0	pCi/g	
SWL-SS-08	111492	0 - .5	19-APR-93	PU-238	.902	J	0	pCi/g	
SWL-SS-08	111492	0 - .5	19-APR-93	U-TOTAL	97.000	-	3.24	mg/kg	
SWL-SS-08	111492	0 - .5	19-APR-93	U-238	26.900	-	1.27	pCi/g	
SWL-SS-08	111492	0 - .5	19-APR-93	U-235/236	.809	-	.181	pCi/g	
SWL-SS-08	111492	0 - .5	19-APR-93	PU-239/240	.113	J	0	pCi/g	
SWL-SS-08	111492	0 - .5	19-APR-93	RA-228	1.450	-	1.17	pCi/g	
SWL-SS-08	111492	0 - .5	19-APR-93	TH-230	3.130	J	2.112	pCi/g	
SWL-SS-08	111492	0 - .5	19-APR-93	U-234	12.400	-	1.319	pCi/g	
SWL-SS-09	111307	0 - .5	02-APR-93	NP-237	.064	N	0	pCi/g	
SWL-SS-09	111307	0 - .5	02-APR-93	U-TOTAL	27.500	J	3.24	mg/kg	
SWL-SS-09	111307	0 - .5	02-APR-93	U-238	8.210	-	1.27	pCi/g	
SWL-SS-09	111307	0 - .5	02-APR-93	U-235/236	.398	J	.181	pCi/g	
SWL-SS-09	111307	0 - .5	02-APR-93	PU-238	.019	J	0	pCi/g	
SWL-SS-09	111307	0 - .5	02-APR-93	RA-226	2.260	-	1.528	pCi/g	
SWL-SS-09	111307	0 - .5	02-APR-93	TH-230	3.880	-	2.112	pCi/g	
SWL-SS-09	111307	0 - .5	02-APR-93	U-234	6.700	-	1.319	pCi/g	
SWL-SS-09	111307	0 - .5	02-APR-93	SR-90	1.440	J	0	pCi/g	

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TABLE C-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND	UNITS
<u>RADIONUCLIDES (Continued)</u>									
SWL-SS-09	111307	0 - .5	02-APR-93	PU-239/240	.032 J	0	pCi/g		
SWL-SS-10	111309	0 - .5	02-APR-93	NP-237	.046 N	0	pCi/g		
SWL-SS-10	111309	0 - .5	02-APR-93	U-TOTAL	10.500 J	3.24	mg/kg		
SWL-SS-10	111309	0 - .5	02-APR-93	U-238	2.900 -	1.27	pCi/g		
SWL-SS-10	111309	0 - .5	02-APR-93	U-234	2.280 -	1.319	pCi/g		
SWL-SS-10	111309	0 - .5	02-APR-93	SR-90	.527 J	0	pCi/g		
SWL-SS-10	111309	0 - .5	02-APR-93	RA-228	1.210 -	1.17	pCi/g		
SWL-SS-10	111309	0 - .5	02-APR-93	PU-239/240	.026 J	0	pCi/g		
SWL-SS-10	111309	0 - .5	02-APR-93	PU-238	.097 J	0	pCi/g		
SWL-SS-11	111310	0 - .5	02-APR-93	PU-239/240	.023 J	0	pCi/g		
SWL-SS-11	111310	0 - .5	02-APR-93	U-235/236	.288 -	.181	pCi/g		
SWL-SS-11	111310	0 - .5	02-APR-93	U-TOTAL	19.500 J	3.24	mg/kg		
SWL-SS-11	111310	0 - .5	02-APR-93	U-238	6.680 -	1.27	pCi/g		
SWL-SS-11	111310	0 - .5	02-APR-93	U-234	4.970 -	1.319	pCi/g		
SWL-SS-12	111312	0 - .5	02-APR-93	NP-237	3.110 N	0	pCi/g		
SWL-SS-12	111312	0 - .5	02-APR-93	U-TOTAL	18.700 -	3.24	mg/kg		
SWL-SS-12	111312	0 - .5	02-APR-93	U-238	5.580 -	1.27	pCi/g		
SWL-SS-12	111312	0 - .5	02-APR-93	U-234	5.460 -	1.319	pCi/g		
SWL-SS-12	111312	0 - .5	02-APR-93	SR-90	1.070 J	0	pCi/g		
SWL-SS-12	111312	0 - .5	02-APR-93	PU-238	.333 J	0	pCi/g		
SWL-SS-12	111312	0 - .5	02-APR-93	U-235/236	.346 J	.181	pCi/g		
SWL-SS-12	111312	0 - .5	02-APR-93	RA-228	2.070 -	1.17	pCi/g		
<u>VOLATILE ORGANICS</u>									
SWL-SS-01	111293	0 - .5	01-APR-93	2-Butanone	1.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Acetone	1.000 J	0	ug/kg		
SWL-SS-02	111297	0 - .5	01-APR-93	Acetone	2.000 J	0	ug/kg		
SWL-SS-03	111298	0 - .5	01-APR-93	Bromomethane	2.000 J	0	ug/kg		
SWL-SS-03	111298	0 - .5	01-APR-93	Chloromethane	2.000 J	0	ug/kg		
SWL-SS-10	111309	0 - .5	02-APR-93	Acetone	3.000 J	0	ug/kg		
SWL-SS-11	111310	0 - .5	02-APR-93	Acetone	5.000 J	0	ug/kg		
<u>SEMOVOLATILE ORGANICS</u>									
SWL-SS-01	111293	0 - .5	01-APR-93	Acenaphthene	120.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Benzo(a)pyrene	760.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Benzo(b)fluoranthene	710.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Benzo(g,h,i)perylene	500.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Benzo(k)fluoranthene	880.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Pyrene	2100.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Phenanthrene	1500.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Indeno(1,2,3-cd)pyrene	480.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Fluorene	100.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Fluoranthene	1900.000 J	0	ug/kg		
SWL-SS-01	111293	0 - .5	01-APR-93	Dibenzofuran	56.000 J	0	ug/kg		

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TABLE C-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>SEMIVOLATILE ORGANICS (Continued)</u>							
SWL-SS-01	111293	0 - .5	01-APR-93	Dibenzo(a,h)anthracene	200.000	J	0 ug/kg
SWL-SS-01	111293	0 - .5	01-APR-93	Chrysene	1100.000	J	0 ug/kg
SWL-SS-01	111293	0 - .5	01-APR-93	Carbazole	77.000	J	0 ug/kg
SWL-SS-01	111293	0 - .5	01-APR-93	Anthracene	230.000	J	0 ug/kg
SWL-SS-01	111293	0 - .5	01-APR-93	Benzo(a)anthracene	880.000	J	0 ug/kg
SWL-SS-02	111297	0 - .5	01-APR-93	Chrysene	45.000	J	0 ug/kg
SWL-SS-02	111297	0 - .5	01-APR-93	Pyrene	55.000	J	0 ug/kg
SWL-SS-02	111297	0 - .5	01-APR-93	Fluoranthene	57.000	J	0 ug/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Benzo(a)anthracene	110.000	J	0 ug/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Benzo(g,h,i)perylene	82.000	J	0 ug/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Benzo(k)fluoranthene	150.000	J	0 ug/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Indeno(1,2,3-cd)pyrene	73.000	J	0 ug/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Pyrene	260.000	J	0 ug/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Phenanthrene	150.000	J	0 ug/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Fluoranthene	260.000	J	0 ug/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Chrysene	150.000	J	0 ug/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Benzo(b)fluoranthene	96.000	J	0 ug/kg
SWL-SS-03	111298	0 - .5	01-APR-93	Benzo(a)pyrene	110.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Benzo(a)anthracene	140.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Indeno(1,2,3-cd)pyrene	91.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Fluoranthene	300.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Di-n-butyl phthalate	55.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Chrysene	180.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Benzo(k)fluoranthene	140.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Benzo(g,h,i)perylene	93.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Benzo(b)fluoranthene	140.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Benzo(a)pyrene	140.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Pyrene	300.000	J	0 ug/kg
SWL-SS-04	111300	0 - .5	01-APR-93	Phenanthrene	150.000	J	0 ug/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Benzo(a)anthracene	55.000	J	0 ug/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Chrysene	77.000	J	0 ug/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Benzo(k)fluoranthene	78.000	J	0 ug/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Benzo(a)pyrene	59.000	J	0 ug/kg
SWL-SS-05	111301	0 - .5	01-APR-93	bis(2-Ethylhexyl) phthalate	48.000	J	0 ug/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Pyrene	130.000	J	0 ug/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Phenanthrene	90.000	J	0 ug/kg
SWL-SS-05	111301	0 - .5	01-APR-93	Fluoranthene	130.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Acenaphthene	49.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Anthracene	120.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Benzo(b)fluoranthene	150.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	bis(2-Ethylhexyl) phthalate	43.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Pyrene	660.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Phenanthrene	470.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Indeno(1,2,3-cd)pyrene	100.000	J	0 ug/kg

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TABLE C-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>SEMIVOLATILE ORGANICS (Continued)</u>							
SWL-SS-06	111303	0 - .5	01-APR-93	Fluorene	56.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Fluoranthene	530.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Dibenzo(a,h)anthracene	56.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Chrysene	250.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Benzo(k)fluoranthene	210.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Benzo(g,h,i)perylene	100.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Benzo(a)pyrene	190.000	J	0 ug/kg
SWL-SS-06	111303	0 - .5	01-APR-93	Benzo(a)anthracene	220.000	J	0 ug/kg
SWL-SS-07	111304	0 - .5	02-APR-93	Benzo(k)fluoranthene	42.000	J	0 ug/kg
SWL-SS-07	111304	0 - .5	02-APR-93	Chrysene	49.000	J	0 ug/kg
SWL-SS-07	111304	0 - .5	02-APR-93	bis(2-Ethylhexyl) phthalate	40.000	J	0 ug/kg
SWL-SS-07	111304	0 - .5	02-APR-93	Pyrene	130.000	J	0 ug/kg
SWL-SS-07	111304	0 - .5	02-APR-93	Phenanthrene	59.000	J	0 ug/kg
SWL-SS-07	111304	0 - .5	02-APR-93	Fluoranthene	85.000	J	0 ug/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Benzo(a)anthracene	79.000	J	0 ug/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Benzo(k)fluoranthene	75.000	J	0 ug/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Benzo(b)fluoranthene	64.000	J	0 ug/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Indeno(1,2,3-cd)pyrene	46.000	J	0 ug/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Pyrene	170.000	J	0 ug/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Phenanthrene	120.000	J	0 ug/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Fluoranthene	200.000	J	0 ug/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Chrysene	94.000	J	0 ug/kg
SWL-SS-08	111492	0 - .5	19-APR-93	Benzo(a)pyrene	67.000	J	0 ug/kg
SWL-SS-09	111307	0 - .5	02-APR-93	Pyrene	49.000	J	0 ug/kg
SWL-SS-11	111310	0 - .5	02-APR-93	bis(2-Ethylhexyl) phthalate	43.000	J	0 ug/kg
<u>PESTICIDES/PCBS</u>							
SWL-SS-06	111303	0 - .5	01-APR-93	4,4'-DDE	12.000	J	0 ug/kg

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TABLE C-2B
SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SUBSURFACE SOIL
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS							
1719	067287	3 - 4.5	07-AUG-91	Antimony	4.200	-	0 mg/kg
1719	067287	3 - 4.5	07-AUG-91	Molybdenum	2.900	-	.27 mg/kg
1719	067287	3 - 4.5	07-AUG-91	Silver	3.300	-	0 mg/kg
1719	067295	15 - 16.5	08-AUG-91	Antimony	3.800	-	0 mg/kg
1719	067295	15 - 16.5	08-AUG-91	Molybdenum	3.600	-	.27 mg/kg
1719	067295	15 - 16.5	08-AUG-91	Silver	3.400	-	0 mg/kg
1719	067300	18 - 19.5	08-AUG-91	Antimony	27.300	-	0 mg/kg
1719	067300	18 - 19.5	08-AUG-91	Beryllium	.710	J	.62 mg/kg
1719	067300	18 - 19.5	08-AUG-91	Cadmium	4.000	-	.91 mg/kg
1719	067300	18 - 19.5	08-AUG-91	Chromium	26.900	J	20.953 mg/kg
1719	067300	18 - 19.5	08-AUG-91	Molybdenum	14.500	-	.27 mg/kg
1719	067300	18 - 19.5	08-AUG-91	Silver	15.500	-	0 mg/kg
1720	067307	3 - 4.5	10-AUG-91	Beryllium	.990	-	.62 mg/kg
1720	067307	3 - 4.5	10-AUG-91	Cadmium	.920	J	.91 mg/kg
1720	067307	3 - 4.5	10-AUG-91	Chromium	22.400	-	20.953 mg/kg
1720	067307	3 - 4.5	10-AUG-91	Nickel	36.600	-	34.747 mg/kg
1720	067307	3 - 4.5	10-AUG-91	Silver	4.200	-	0 mg/kg
1720	067307	3 - 4.5	10-AUG-91	Molybdenum	16.000	-	.27 mg/kg
1720	067307	3 - 4.5	10-AUG-91	Copper	24.000	-	20.23 mg/kg
1720	067311	7.5 - 9	10-AUG-91	Antimony	16.400	J	0 mg/kg
1720	067311	7.5 - 9	10-AUG-91	Beryllium	.840	-	.62 mg/kg
1720	067311	7.5 - 9	10-AUG-91	Silver	14.900	-	0 mg/kg
1720	067311	7.5 - 9	10-AUG-91	Molybdenum	14.200	-	.27 mg/kg
1720	067311	7.5 - 9	10-AUG-91	Chromium	25.900	-	20.953 mg/kg
1720	067311	7.5 - 9	10-AUG-91	Cadmium	3.800	J	.91 mg/kg
1720	067312	9 - 10.5	10-AUG-91	Antimony	11.900	J	0 mg/kg
1720	067312	9 - 10.5	10-AUG-91	Arsenic	15.400	-	9.704 mg/kg
1720	067312	9 - 10.5	10-AUG-91	Barium	223.000	-	121.064 mg/kg
1720	067312	9 - 10.5	10-AUG-91	Cobalt	25.800	-	15.929 mg/kg
1720	067312	9 - 10.5	10-AUG-91	Iron	36400.000	-	31188.164 mg/kg
1720	067312	9 - 10.5	10-AUG-91	Manganese	1690.000	-	1045.407 mg/kg
1720	067312	9 - 10.5	10-AUG-91	Silver	4.000	-	0 mg/kg
1720	067312	9 - 10.5	10-AUG-91	Selenium	.540	-	0 mg/kg
1720	067312	9 - 10.5	10-AUG-91	Nickel	42.000	-	34.747 mg/kg

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TABLE C-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
METALS (Continued)							
1720	067312	9 - 10.5	10-AUG-91	Molybdenum	18.800 -	.27	mg/kg
1720	067312	9 - 10.5	10-AUG-91	Copper	29.000 -	20.23	mg/kg
1720	067312	9 - 10.5	10-AUG-91	Chromium	23.400 -	20.953	mg/kg
1720	067312	9 - 10.5	10-AUG-91	Beryllium	.950 -	.62	mg/kg
1721	067234	9 - 10.5	26-JUL-91	Beryllium	.920 J	.62	mg/kg
1721	067234	9 - 10.5	26-JUL-91	Cadmium	1.400 -	.91	mg/kg
1721	067234	9 - 10.5	26-JUL-91	Silicon	1140.000 -	1069.496	mg/kg
1721	067234	9 - 10.5	26-JUL-91	Silver	7.500 -	0	mg/kg
1721	067234	9 - 10.5	26-JUL-91	Molybdenum	11.800 -	.27	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Arsenic	13.800 -	9.704	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Barium	126.000 J	121.064	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Zinc	77.800 -	73.158	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Thallium	.600 -	.49	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Nickel	41.000 J	34.747	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Molybdenum	14.900 -	.27	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Lead	16.700 -	15.78	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Iron	33300.000 J	31188.164	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Copper	28.400 -	20.23	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Cobalt	18.800 -	15.929	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Chromium	21.900 J	20.953	mg/kg
1721	067237	13.5 - 15	27-JUL-91	Beryllium	.930 -	.62	mg/kg
1722	067250	1.5 - 3	29-JUL-91	Cadmium	2.700 -	.91	mg/kg
1722	067250	1.5 - 3	29-JUL-91	Chromium	22.500 J	20.953	mg/kg
1722	067250	1.5 - 3	29-JUL-91	Cyanide	.790 -	.17	mg/kg
1722	067250	1.5 - 3	29-JUL-91	Sodium	342.000 -	227.947	mg/kg
1722	067250	1.5 - 3	29-JUL-91	Silver	12.500 J	0	mg/kg
1722	067250	1.5 - 3	29-JUL-91	Molybdenum	10.200 J	.27	mg/kg
1722	067250	1.5 - 3	29-JUL-91	Lead	147.000 -	15.78	mg/kg
1722	067259	14 - 16.5	30-JUL-91	Beryllium	.630 -	.62	mg/kg
1722	067259	14 - 16.5	30-JUL-91	Chromium	23.400 J	20.953	mg/kg
1722	067259	14 - 16.5	30-JUL-91	Cadmium	2.300 -	.91	mg/kg
1722	067259	14 - 16.5	30-JUL-91	Cyanide	.500 -	.17	mg/kg
1722	067259	14 - 16.5	30-JUL-91	Silver	10.200 -	0	mg/kg
1722	067259	14 - 16.5	30-JUL-91	Molybdenum	11.200 -	.27	mg/kg
1722	067259	14 - 16.5	30-JUL-91	Copper	22.200 -	20.23	mg/kg
1808	067394	3 - 4.5	27-AUG-91	Antimony	10.600 J	0	mg/kg
1808	067394	3 - 4.5	27-AUG-91	Beryllium	.710 -	.62	mg/kg
1808	067394	3 - 4.5	27-AUG-91	Cadmium	2.100 -	.91	mg/kg
1808	067394	3 - 4.5	27-AUG-91	Silver	11.000 -	0	mg/kg
1808	067394	3 - 4.5	27-AUG-91	Molybdenum	11.700 -	.27	mg/kg
1808	067394	3 - 4.5	27-AUG-91	Chromium	25.300 -	20.953	mg/kg

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TABLE C-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
METALS (Continued)								
1808	067396	7.5 - 9	27-AUG-91	Antimony	10.400	J	0	mg/kg
1808	067396	7.5 - 9	27-AUG-91	Beryllium	.880	-	.62	mg/kg
1808	067396	7.5 - 9	27-AUG-91	Cadmium	2.400	-	.91	mg/kg
1808	067396	7.5 - 9	27-AUG-91	Silver	12.500	-	0	mg/kg
1808	067396	7.5 - 9	27-AUG-91	Molybdenum	13.700	-	.27	mg/kg
1808	067396	7.5 - 9	27-AUG-91	Copper	21.300	-	20.23	mg/kg
1808	067396	7.5 - 9	27-AUG-91	Chromium	29.800	-	20.953	mg/kg
1808	067401	15 - 16.5	27-AUG-91	Antimony	20.000	J	0	mg/kg
1808	067401	15 - 16.5	27-AUG-91	Cadmium	4.000	-	.91	mg/kg
1808	067401	15 - 16.5	27-AUG-91	Beryllium	.750	-	.62	mg/kg
1808	067401	15 - 16.5	27-AUG-91	Silver	15.600	-	0	mg/kg
1808	067401	15 - 16.5	27-AUG-91	Molybdenum	14.000	-	.27	mg/kg
1808	067401	15 - 16.5	27-AUG-91	Chromium	29.800	-	20.953	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Aluminum	20800.000	-	16277.291	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Barium	160.000	-	121.064	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Arsenic	9.900	-	9.704	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Cobalt	23.500	-	15.929	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Iron	36800.000	-	31188.164	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Manganese	1140.000	J	1045.407	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Zinc	92.700	J	73.158	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Vanadium	57.300	-	38.088	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Sodium	309.000	-	227.947	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Silver	19.700	J	0	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Silicon	1970.000	-	1069.496	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Potassium	2430.000	-	2007.519	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Nickel	47.100	-	34.747	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Molybdenum	26.800	-	.27	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Lead	30.600	-	15.78	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Copper	41.500	-	20.23	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Chromium	51.800	-	20.953	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Cadmium	6.500	-	.91	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Beryllium	1.600	-	.62	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Antimony	22.000	J	0	mg/kg
1888	067717	5 - 6	23-FEB-92	Aluminum	25200.000	-	16277.291	mg/kg
1888	067717	5 - 6	23-FEB-92	Potassium	2090.000	-	2007.519	mg/kg
1888	067717	5 - 6	23-FEB-92	Nickel	39.300	-	34.747	mg/kg
1888	067717	5 - 6	23-FEB-92	Molybdenum	29.300	-	.27	mg/kg
1888	067717	5 - 6	23-FEB-92	Lead	28.300	-	15.78	mg/kg
1888	067717	5 - 6	23-FEB-92	Iron	42600.000	-	31188.164	mg/kg
1888	067717	5 - 6	23-FEB-92	Copper	40.500	-	20.23	mg/kg
1888	067717	5 - 6	23-FEB-92	Cobalt	26.000	-	15.929	mg/kg

TABLE C-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS (Continued)							
1888	067717	5 - 6	23-FEB-92	Chromium	49.300	-	20.953 mg/kg
1888	067717	5 - 6	23-FEB-92	Zinc	108.000	J	73.158 mg/kg
1888	067717	5 - 6	23-FEB-92	Vanadium	68.800	-	38.088 mg/kg
1888	067717	5 - 6	23-FEB-92	Thallium	.800	J	.49 mg/kg
1888	067717	5 - 6	23-FEB-92	Silver	12.600	J	0 mg/kg
1888	067717	5 - 6	23-FEB-92	Silicon	2620.000	-	1069.496 mg/kg
1888	067717	5 - 6	23-FEB-92	Cadmium	5.600	-	.91 mg/kg
1888	067717	5 - 6	23-FEB-92	Beryllium	1.600	-	.62 mg/kg
1888	067717	5 - 6	23-FEB-92	Barium	178.000	-	121.064 mg/kg
1888	067717	5 - 6	23-FEB-92	Arsenic	12.500	-	9.704 mg/kg
1888	067717	5 - 6	23-FEB-92	Antimony	14.800	J	0 mg/kg
1889	067740	15.5 - 17.5	25-FEB-92	Antimony	22.600	J	0 mg/kg
1889	067740	15.5 - 17.5	25-FEB-92	Beryllium	.730	-	.62 mg/kg
1889	067740	15.5 - 17.5	25-FEB-92	Cadmium	4.800	J	.91 mg/kg
1889	067740	15.5 - 17.5	25-FEB-92	Thallium	12.500	-	.49 mg/kg
1889	067740	15.5 - 17.5	25-FEB-92	Silver	15.000	-	0 mg/kg
1889	067740	15.5 - 17.5	25-FEB-92	Molybdenum	13.200	J	.27 mg/kg
1889	067740	15.5 - 17.5	25-FEB-92	Copper	22.600	-	20.23 mg/kg
1889	067740	15.5 - 17.5	25-FEB-92	Chromium	29.500	-	20.953 mg/kg
RADIONUCLIDES							
1035	008388	21 - 22.5	21-MAR-88	U-234	5.200	-	1.034 pCi/g
1035	008388	21 - 22.5	21-MAR-88	U-238	18.100	-	1.122 pCi/g
1718	067266	1.5 - 3	31-JUL-91	RA-228	3.150	J	1.325 pCi/g
1718	067266	1.5 - 3	31-JUL-91	U-TOTAL	67.200	J	2.54 mg/kg
1718	067266	1.5 - 3	31-JUL-91	U-238	22.100	-	1.122 pCi/g
1718	067266	1.5 - 3	31-JUL-91	U-235/236	1.650	J	.142 pCi/g
1718	067266	1.5 - 3	31-JUL-91	U-234	23.300	J	1.034 pCi/g
1718	067266	1.5 - 3	31-JUL-91	TH-228	3.390	J	1.341 pCi/g
1718	067266	1.5 - 3	31-JUL-91	TH-232	2.220	-	1.269 pCi/g
1718	067266	1.5 - 3	31-JUL-91	TH-TOTAL	20.000	-	9.47 mg/kg
1718	067266	1.5 - 3	31-JUL-91	TH-230	2.300	J	1.897 pCi/g
1718	067275	9 - 10.5	01-AUG-91	TH-228	2.290	J	1.341 pCi/g
1718	067275	9 - 10.5	01-AUG-91	U-234	8.700	J	1.034 pCi/g
1718	067275	9 - 10.5	01-AUG-91	U-238	40.800	-	1.122 pCi/g
1718	067275	9 - 10.5	01-AUG-91	U-TOTAL	124.000	J	2.54 mg/kg
1718	067275	9 - 10.5	01-AUG-91	U-235/236	1.130	J	.142 pCi/g
1718	067275	9 - 10.5	01-AUG-91	TH-TOTAL	11.300	-	9.47 mg/kg
1718	067279	15 - 16.5	01-AUG-91	U-TOTAL	3.050	J	2.54 mg/kg
1719	067286	1.5 - 3	07-AUG-91	SR-90	.860	J	.56 pCi/g
1719	067286	1.5 - 3	07-AUG-91	U-TOTAL	10.600	J	2.54 mg/kg

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TABLE C-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)								
1719	067286	1.5 - 3	07-AUG-91	U-238	8.660	-	1.122	pCi/g
1719	067286	1.5 - 3	07-AUG-91	U-235/236	1.230	-	.142	pCi/g
1719	067286	1.5 - 3	07-AUG-91	U-234	5.530	-	1.034	pCi/g
1719	067292	10.5 - 12	07-AUG-91	SR-90	1.100	J	.56	pCi/g
1719	067292	10.5 - 12	07-AUG-91	U-235/236	4.500	-	.142	pCi/g
1719	067292	10.5 - 12	07-AUG-91	U-TOTAL	393.000	J	2.54	mg/kg
1719	067292	10.5 - 12	07-AUG-91	U-238	141.000	-	1.122	pCi/g
1719	067292	10.5 - 12	07-AUG-91	U-234	20.500	-	1.034	pCi/g
1719	067296	16.5 - 18	08-AUG-91	SR-90	1.160	J	.56	pCi/g
1719	067296	16.5 - 18	08-AUG-91	U-238	1.590	-	1.122	pCi/g
1719	067296	16.5 - 18	08-AUG-91	U-TOTAL	19.700	J	2.54	mg/kg
1720	067306	1.5 - 3	10-AUG-91	RA-228	1.350	J	1.325	pCi/g
1720	067306	1.5 - 3	10-AUG-91	TH-228	2.100	J	1.341	pCi/g
1720	067306	1.5 - 3	10-AUG-91	TH-230	3.460	J	1.897	pCi/g
1720	067306	1.5 - 3	10-AUG-91	U-TOTAL	150.000	J	2.54	mg/kg
1720	067306	1.5 - 3	10-AUG-91	U-238	45.200	-	1.122	pCi/g
1720	067306	1.5 - 3	10-AUG-91	U-235/236	1.270	J	.142	pCi/g
1720	067306	1.5 - 3	10-AUG-91	U-234	18.500	J	1.034	pCi/g
1720	067306	1.5 - 3	10-AUG-91	SR-90	1.580	J	.56	pCi/g
1720	067310	7.5 - 9	10-AUG-91	SR-90	3.090	J	.56	pCi/g
1720	067310	7.5 - 9	10-AUG-91	U-TOTAL	13.000	J	2.54	mg/kg
1720	067310	7.5 - 9	10-AUG-91	U-238	3.540	-	1.122	pCi/g
1720	067310	7.5 - 9	10-AUG-91	U-234	1.350	J	1.034	pCi/g
1720	067310	7.5 - 9	10-AUG-91	TH-230	2.510	J	1.897	pCi/g
1720	067313	9 - 10.5	10-AUG-91	RA-226	1.550	J	1.47	pCi/g
1720	067313	9 - 10.5	10-AUG-91	RA-228	1.480	J	1.325	pCi/g
1720	067313	9 - 10.5	10-AUG-91	U-TOTAL	5.830	J	2.54	mg/kg
1720	067313	9 - 10.5	10-AUG-91	U-238	1.810	-	1.122	pCi/g
1720	067313	9 - 10.5	10-AUG-91	U-234	1.240	J	1.034	pCi/g
1720	067313	9 - 10.5	10-AUG-91	TH-228	2.020	J	1.341	pCi/g
1720	067313	9 - 10.5	10-AUG-91	SR-90	.900	J	.56	pCi/g
1721	067230	3 - 4.5	26-JUL-91	SR-90	.800	J	.56	pCi/g
1721	067230	3 - 4.5	26-JUL-91	U-TOTAL	6.700	-	2.54	mg/kg
1721	067230	3 - 4.5	26-JUL-91	U-238	2.330	-	1.122	pCi/g
1721	067230	3 - 4.5	26-JUL-91	U-234	1.390	J	1.034	pCi/g
1721	067230	3 - 4.5	26-JUL-91	TH-228	1.570	J	1.341	pCi/g
1721	067233	7.5 - 9	26-JUL-91	RA-224	1.240	-	1.019	pCi/g
1721	067233	7.5 - 9	26-JUL-91	U-234	1.640	-	1.034	pCi/g
1721	067233	7.5 - 9	26-JUL-91	U-TOTAL	8.900	J	2.54	mg/kg
1721	067233	7.5 - 9	26-JUL-91	U-238	3.000	-	1.122	pCi/g
1721	067238	15 - 16.5	28-JUL-91	SR-90	.730	J	.56	pCi/g
1721	067238	15 - 16.5	28-JUL-91	U-234	1.760	J	1.034	pCi/g

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TABLE C-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)									
1721	067238	15 - 16.5	28-JUL-91	U-TOTAL	11.200	-	2.54	mg/kg	
1721	067238	15 - 16.5	28-JUL-91	U-238	3.610	-	1.122	pCi/g	
1721	067238	15 - 16.5	28-JUL-91	TH-228	1.400	J	1.341	pCi/g	
1722	067251	3 - 4.5	29-JUL-91	RA-226	1.500	J	1.47	pCi/g	
1722	067251	3 - 4.5	29-JUL-91	U-TOTAL	940.000	J	2.54	mg/kg	
1722	067251	3 - 4.5	29-JUL-91	U-238	420.000	-	1.122	pCi/g	
1722	067251	3 - 4.5	29-JUL-91	U-235/236	22.400	J	.142	pCi/g	
1722	067251	3 - 4.5	29-JUL-91	U-234	334.000	J	1.034	pCi/g	
1722	067251	3 - 4.5	29-JUL-91	TH-230	12.300	J	1.897	pCi/g	
1722	067251	3 - 4.5	29-JUL-91	TH-228	1.610	J	1.341	pCi/g	
1722	067257	11 - 12.5	30-JUL-91	RA-224	1.490	-	1.019	pCi/g	
1722	067257	11 - 12.5	30-JUL-91	U-TOTAL	17.500	J	2.54	mg/kg	
1722	067257	11 - 12.5	30-JUL-91	U-238	6.530	-	1.122	pCi/g	
1722	067257	11 - 12.5	30-JUL-91	U-234	4.510	-	1.034	pCi/g	
1722	067257	11 - 12.5	30-JUL-91	TH-TOTAL	10.800	J	9.47	mg/kg	
1722	067257	11 - 12.5	30-JUL-91	TH-230	2.400	J	1.897	pCi/g	
1722	067257	11 - 12.5	30-JUL-91	SR-90	1.420	-	.56	pCi/g	
1722	067258	12.5 - 14	30-JUL-91	RA-224	1.110	-	1.019	pCi/g	
1722	067258	12.5 - 14	30-JUL-91	U-234	30.600	-	1.034	pCi/g	
1722	067258	12.5 - 14	30-JUL-91	U-235/236	2.470	-	.142	pCi/g	
1722	067258	12.5 - 14	30-JUL-91	U-TOTAL	146.000	-	2.54	mg/kg	
1722	067258	12.5 - 14	30-JUL-91	U-238	47.700	-	1.122	pCi/g	
1722	067258	12.5 - 14	30-JUL-91	TH-230	3.810	-	1.897	pCi/g	
1808	067393	1.5 - 3	27-AUG-91	TH-228	4.010	J	1.341	pCi/g	
1808	067393	1.5 - 3	27-AUG-91	U-238	17.300	-	1.122	pCi/g	
1808	067393	1.5 - 3	27-AUG-91	U-235/236	1.170	J	.142	pCi/g	
1808	067393	1.5 - 3	27-AUG-91	U-234	17.600	J	1.034	pCi/g	
1808	067393	1.5 - 3	27-AUG-91	TH-230	2.760	J	1.897	pCi/g	
1808	067393	1.5 - 3	27-AUG-91	TH-232	3.590	-	1.269	pCi/g	
1808	067393	1.5 - 3	27-AUG-91	TH-TOTAL	32.400	-	9.47	mg/kg	
1808	067398	10.5 - 12	27-AUG-91	TH-230	2.420	J	1.897	pCi/g	
1808	067398	10.5 - 12	27-AUG-91	TH-TOTAL	10.100	-	9.47	mg/kg	
1808	067398	10.5 - 12	27-AUG-91	U-238	21.000	-	1.122	pCi/g	
1808	067398	10.5 - 12	27-AUG-91	U-TOTAL	66.800	J	2.54	mg/kg	
1808	067398	10.5 - 12	27-AUG-91	U-235/236	.606	J	.142	pCi/g	
1808	067398	10.5 - 12	27-AUG-91	U-234	6.260	J	1.034	pCi/g	
1808	067400	13.5 - 15	27-AUG-91	TH-230	1.920	J	1.897	pCi/g	
1808	067400	13.5 - 15	27-AUG-91	U-TOTAL	3.210	J	2.54	mg/kg	
1888	067718	6 - 7.5	23-FEB-92	PB-210	1.030	J	.857	pCi/g	
1888	067718	6 - 7.5	23-FEB-92	TH-230	2.300	-	1.897	pCi/g	
1888	067718	6 - 7.5	23-FEB-92	TH-228	1.370	-	1.341	pCi/g	

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TABLE C-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1888	067718	6 - 7.5	23-FEB-92	TH-232	1.580	-	1.269 pCi/g
1888	067718	6 - 7.5	23-FEB-92	U-234	4.100	-	1.034 pCi/g
1888	067718	6 - 7.5	23-FEB-92	U-TOTAL	19.000	J	2.54 mg/kg
1888	067718	6 - 7.5	23-FEB-92	U-238	5.300	-	1.122 pCi/g
1888	067718	6 - 7.5	23-FEB-92	TH-TOTAL	14.300	-	9.47 mg/kg
1888	067718	6 - 7.5	23-FEB-92	RA-224	2.140	J	1.019 pCi/g
1888	067718	6 - 7.5	23-FEB-92	SR-90	1.010	-	.56 pCi/g
1888	067718	6 - 7.5	23-FEB-92	RA-228	1.570	J	1.325 pCi/g
VOLATILE ORGANICS							
1719	067287	3 - 4.5	07-AUG-91	1,2-Dichloroethane	6.000	J	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Chlorobenzene	2.000	J	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Acetone	7.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	2-Hexanone	1.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Acetone	10.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Trichlorofluoromethane	840.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Xylenes, Total	100.000	-	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Toluene	8.000	-	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Ethylbenzene	18.000	-	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Chlorobenzene	6.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	4-Methyl-2-pentanone	1.000	J	0 ug/kg
1719	067300	18 - 19.5	08-AUG-91	Acetone	10.000	J	0 ug/kg
1720	067311	7.5 - 9	10-AUG-91	1,2-Dichloroethene	12.000	-	0 ug/kg
1720	067311	7.5 - 9	10-AUG-91	Methylene chloride	6.000	-	0 ug/kg
1721	067234	9 - 10.5	26-JUL-91	1,1-Dichloroethane	16.000	-	0 ug/kg
1721	067234	9 - 10.5	26-JUL-91	Acetone	39.000	-	0 ug/kg
1721	067234	9 - 10.5	26-JUL-91	1,4-Dioxane	12900.000	J	0 ug/kg
1721	067234	9 - 10.5	26-JUL-91	Methylene chloride	8.000	-	0 ug/kg
1721	067234	9 - 10.5	26-JUL-91	Dichlorodifluoromethane	576.000	-	0 ug/kg
1721	067234	9 - 10.5	26-JUL-91	Chloromethane	6.000	J	0 ug/kg
1721	067237	13.5 - 15	27-JUL-91	1,2-Dichloroethene	2.000	J	0 ug/kg
1722	067250	1.5 - 3	29-JUL-91	1,1-Dichloroethane	130.000	-	0 ug/kg
1722	067259	14 - 16.5	30-JUL-91	2-Butanone	3.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Tetrachloroethene	30.000	J	0 ug/kg
1808	067396	7.5 - 9	27-AUG-91	1,4-Dioxane	66.000	J	0 ug/kg
1808	067396	7.5 - 9	27-AUG-91	Pyridine	3.000	J	0 ug/kg
1808	067396	7.5 - 9	27-AUG-91	4-Methyl-2-pentanone	1.000	J	0 ug/kg
1808	067401	15 - 16.5	27-AUG-91	Styrene	2.000	J	0 ug/kg
1808	067401	15 - 16.5	27-AUG-91	Toluene	1.000	J	0 ug/kg
1888	067714	0 - 1.5	23-FEB-92	Methylene chloride	6.000	-	0 ug/kg
1888	067714	0 - 1.5	23-FEB-92	Toluene	2.000	J	0 ug/kg

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TABLE C-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
VOLATILE ORGANICS (Continued)							
1888	067717	5 - 6	23-FEB-92	1,2-Dichloroethene	3.000	J	0 ug/kg
1888	067717	5 - 6	23-FEB-92	Acetone	7.000	-	0 ug/kg
1888	067717	5 - 6	23-FEB-92	Methylene chloride	6.000	-	0 ug/kg
1889	067740	15.5 - 17.5	25-FEB-92	Methylene chloride	13.000	-	0 ug/kg
SEMOVOLATILE ORGANICS							
1719	067287	3 - 4.5	07-AUG-91	2-Methylnaphthalene	93.000	J	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Benzo(a)anthracene	7500.000	-	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Acenaphthene	840.000	-	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Benzo(a)pyrene	8200.000	-	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Benzo(b)fluoranthene	15000.000	-	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Phenanthrene	4800.000	-	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Naphthalene	140.000	J	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Indeno(1,2,3-cd)pyrene	5500.000	-	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Fluorene	640.000	-	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Fluoranthene	12000.000	-	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Dibenzofuran	340.000	J	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Dibenzo(a,h)anthracene	49.000	J	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Chrysene	5600.000	-	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Pyrene	12000.000	-	0 ug/kg
1719	067287	3 - 4.5	07-AUG-91	Anthracene	1000.000	-	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Anthracene	130.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Benzo(a)anthracene	290.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Benzo(b)fluoranthene	260.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Benzo(g,h,i)perylene	300.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Chrysene	370.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Di-n-butyl phthalate	120.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Benzoic acid	110.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	bis(2-Ethylhexyl) phthalate	1200.000	-	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Pyrene	610.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Phenanthrene	620.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Indeno(1,2,3-cd)pyrene	210.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Fluoranthene	720.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Dibenzo(a,h)anthracene	110.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Benzo(k)fluoranthene	300.000	J	0 ug/kg
1719	067295	15 - 16.5	08-AUG-91	Benzo(a)pyrene	290.000	J	0 ug/kg
1719	067300	18 - 19.5	08-AUG-91	Benzo(a)anthracene	72.000	J	0 ug/kg
1719	067300	18 - 19.5	08-AUG-91	Fluoranthene	150.000	J	0 ug/kg
1719	067300	18 - 19.5	08-AUG-91	Chrysene	74.000	J	0 ug/kg
1719	067300	18 - 19.5	08-AUG-91	Phenanthrene	83.000	J	0 ug/kg
1719	067300	18 - 19.5	08-AUG-91	bis(2-Ethylhexyl) phthalate	40.000	J	0 ug/kg

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TABLE C-2B
(Continued)

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SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>SEMOVOLATILE ORGANICS (Continued)</u>							
1719	067300	18 - 19.5	08-AUG-91	Pyrene	140.000	J	0 ug/kg
1719	067300	18 - 19.5	08-AUG-91	Benzo(b)fluoranthene	150.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	2-Chlorophenol	49.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	4-Chloro-3-methylphenol	55.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	Pyrene	270.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	Phenol	61.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	Phenanthrene	160.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	Fluoranthene	250.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	Chrysene	140.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	Benzo(b)fluoranthene	190.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	Benzo(a)pyrene	69.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	Benzo(a)anthracene	130.000	J	0 ug/kg
1720	067307	3 - 4.5	10-AUG-91	Acenaphthene	53.000	J	0 ug/kg
1720	067311	7.5 - 9	10-AUG-91	Benzo(a)anthracene	43.000	J	0 ug/kg
1720	067311	7.5 - 9	10-AUG-91	Pyrene	73.000	J	0 ug/kg
1720	067311	7.5 - 9	10-AUG-91	Phenanthrene	53.000	J	0 ug/kg
1720	067311	7.5 - 9	10-AUG-91	Fluoranthene	94.000	J	0 ug/kg
1720	067311	7.5 - 9	10-AUG-91	Benzo(b)fluoranthene	54.000	J	0 ug/kg
1720	067311	7.5 - 9	10-AUG-91	Chrysene	47.000	J	0 ug/kg
1720	067312	9 - 10.5	10-AUG-91	Diethyl phthalate	750.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Acenaphthene	250.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Benzo(g,h,i)perylene	490.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Benzo(a)pyrene	700.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Pyrene	1800.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Phenanthrene	1900.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Naphthalene	41.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Indeno(1,2,3-cd)pyrene	440.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Fluorene	250.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Fluoranthene	2200.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Dibenzofuran	160.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Dibenzo(a,h)anthracene	92.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Chrysene	1100.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Benzo(b)fluoranthene	1500.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Anthracene	270.000	J	0 ug/kg
1808	067394	3 - 4.5	27-AUG-91	Benzo(a)anthracene	910.000	J	0 ug/kg
1808	067396	7.5 - 9	27-AUG-91	Acenaphthene	98.000	J	0 ug/kg
1808	067396	7.5 - 9	27-AUG-91	Acenaphthene	240.000	J	0 ug/kg
1808	067396	7.5 - 9	27-AUG-91	Anthracene	260.000	J	0 ug/kg
1808	067396	7.5 - 9	27-AUG-91	Benzo(a)anthracene	1100.000	J	0 ug/kg
1808	067396	7.5 - 9	27-AUG-91	Phenanthrene	1200.000	J	0 ug/kg
1808	067396	7.5 - 9	27-AUG-91	Phenanthrene	2700.000	J	0 ug/kg

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TABLE C-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
<u>SEMIVOLATILE ORGANICS (Continued)</u>								
1808	067396	7.5 - 9	27-AUG-91	Chrysene	810.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Benzo(k)fluoranthene	1800.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Benzo(k)fluoranthene	600.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Benzo(g,h,i)perylene	480.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Benzo(g,h,i)perylene	650.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Benzo(b)fluoranthene	560.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Benzo(a)pyrene	1000.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Benzo(a)pyrene	600.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Indeno(1,2,3-cd)pyrene	430.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Indeno(1,2,3-cd)pyrene	620.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Fluorene	88.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Fluorene	250.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Fluoranthene	1600.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Fluoranthene	3300.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Diethyl phthalate	680.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Dibenzo(a,h)anthracene	180.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Dibenzo(a,h)anthracene	250.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Chrysene	1400.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Benzo(a)anthracene	600.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Anthracene	390.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Pyrene	1400.000	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Pyrene	2500.000	J	0	ug/kg
1888	067717	5 - 6	23-FEB-92	Chrysene	47.000	J	0	ug/kg
1888	067717	5 - 6	23-FEB-92	bis(2-Ethylhexyl) phthalate	920.000	-	0	ug/kg
1888	067717	5 - 6	23-FEB-92	Diethyl phthalate	45.000	J	0	ug/kg
1888	067717	5 - 6	23-FEB-92	Pyrene	81.000	J	0	ug/kg
1888	067717	5 - 6	23-FEB-92	Phenanthrene	160.000	J	0	ug/kg
<u>PESTICIDES/PCBs</u>								
1721	067234	9 - 10.5	26-JUL-91	Aroclor-1260	610.000	-	0	ug/kg
1808	067394	3 - 4.5	27-AUG-91	Aroclor-1254	150.000	J	0	ug/kg
<u>DIOXIN/FURAN</u>								
1718	067267	3 - 4.5	31-JUL-91	Octachlorodibenzo-p-dioxin	13.700	J	0	ug/kg
1718	067271	7.5 - 9	31-JUL-91	Octachlorodibenzo-p-dioxin	.440	J	0	ug/kg
1718	067278	13.5 - 15	01-AUG-91	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	.067	-	0	ug/kg
1718	067278	13.5 - 15	01-AUG-91	Octachlorodibenzo-p-dioxin	.110	J	0	ug/kg
1719	067287	3 - 4.5	07-AUG-91	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	.380	-	0	ug/kg
1719	067287	3 - 4.5	07-AUG-91	Heptachlorodibenzo-p-dioxin	.650	-	0	ug/kg
1719	067287	3 - 4.5	07-AUG-91	Octachlorodibenzo-p-dioxin	7.100	J	0	ug/kg
1719	067287	3 - 4.5	07-AUG-91	1,2,3,4,6,7,8-Heptachlorodibenzofuran	.073	-	0	ug/kg

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TABLE C-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>DIOXIN/FURAN (Continued)</u>								
1719	067287	3 - 4.5	07-AUG-91	Heptachlorodibenzofuran	.250	-	0	ug/kg
1719	067295	15 - 16.5	08-AUG-91	Octachlorodibenzo-p-dioxin	.710	J	0	ug/kg
1719	067300	18 - 19.5	08-AUG-91	Octachlorodibenzo-p-dioxin	.063	J	0	ug/kg
1720	067307	3 - 4.5	10-AUG-91	Octachlorodibenzo-p-dioxin	7.800	J	0	ug/kg
1720	067311	7.5 - 9	10-AUG-91	Octachlorodibenzo-p-dioxin	7.200	J	0	ug/kg
1720	067312	9 - 10.5	10-AUG-91	Octachlorodibenzo-p-dioxin	.860	J	0	ug/kg
1721	067234	9 - 10.5	26-JUL-91	Octachlorodibenzo-p-dioxin	.310	J	0	ug/kg
1721	067237	13.5 - 15	27-JUL-91	Octachlorodibenzo-p-dioxin	.050	J	0	ug/kg
1722	067250	1.5 - 3	29-JUL-91	Octachlorodibenzo-p-dioxin	.055	J	0	ug/kg
1722	067259	14 - 16.5	30-JUL-91	Octachlorodibenzo-p-dioxin	.050	J	0	ug/kg
1808	067394	3 - 4.5	27-AUG-91	Octachlorodibenzo-p-dioxin	.310	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Heptachlorodibenzo-p-dioxin	.900	J	0	ug/kg
1808	067396	7.5 - 9	27-AUG-91	Octachlorodibenzo-p-dioxin	2.700	-	0	ug/kg
1808	067401	15 - 16.5	27-AUG-91	Octachlorodibenzo-p-dioxin	.085	J	0	ug/kg
1888	067714	0 - 1.5	23-FEB-92	Octachlorodibenzo-p-dioxin	1.000	-	0	ug/kg
1888	067717	5 - 6	23-FEB-92	Octachlorodibenzo-p-dioxin	3.800	-	0	ug/kg
<u>GENERAL CHEMISTRY</u>								
1808	067395	4.5 - 6	27-AUG-91	Total Organic Carbon	20463.000	-	0	mg/kg
1808	067405	10.5 - 12	27-AUG-91	Total Organic Carbon	27071.000	-	0	mg/kg
1808	067406	13.5 - 15	27-AUG-91	Total Organic Carbon	10912.000	-	0	mg/kg
1888	067714	0 - 1.5	23-FEB-92	Total Organic Carbon	10692.000	-	0	mg/kg
1888	067718	6 - 7.5	23-FEB-92	Total Organic Carbon	7403.000	-	0	mg/kg
1889	067740	15.5 - 17.5	25-FEB-92	Total Organic Carbon	6020.000	J	0	mg/kg

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TABLE C-2C
SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SUBSURFACE SOIL
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
METALS								
11036	115380	17 - 19	17-MAY-93	Magnesium	63400.000	-	43052.339	mg/kg
11036	115380	17 - 19	17-MAY-93	Molybdenum	4.300	J	.27	mg/kg
11036	115380	17 - 19	17-MAY-93	Silver	2.600	J	0	mg/kg
11036	115381	2.5 - 5	17-MAY-93	Barium	251.000	-	121.064	mg/kg
11036	115381	2.5 - 5	17-MAY-93	Lead	17.200	-	15.78	mg/kg
11036	115381	2.5 - 5	17-MAY-93	Silver	4.600	-	0	mg/kg
11036	115381	2.5 - 5	17-MAY-93	Sodium	338.000	-	227.947	mg/kg
11036	115381	2.5 - 5	17-MAY-93	Molybdenum	5.300	-	.27	mg/kg
11037	115371	5 - 7.5	15-MAY-93	Barium	182.000	-	121.064	mg/kg
11037	115371	5 - 7.5	15-MAY-93	Lead	16.300	J	15.78	mg/kg
11037	115371	5 - 7.5	15-MAY-93	Beryllium	.730	-	.62	mg/kg
11037	115371	5 - 7.5	15-MAY-93	Molybdenum	7.400	-	.27	mg/kg
11037	115371	5 - 7.5	15-MAY-93	Vanadium	38.400	-	38.088	mg/kg
11037	115371	5 - 7.5	15-MAY-93	Silver	7.300	-	0	mg/kg
11037	115372	17.5 - 20	15-MAY-93	Molybdenum	5.400	-	.27	mg/kg
11037	115372	17.5 - 20	15-MAY-93	Selenium	.480	-	0	mg/kg
11037	115372	17.5 - 20	15-MAY-93	Silver	4.600	-	0	mg/kg
11038	115376	0 - 2.5	16-MAY-93	Molybdenum	4.800	-	.27	mg/kg
11038	115376	0 - 2.5	16-MAY-93	Silver	4.400	-	0	mg/kg
11038	115377	12.5 - 15	16-MAY-93	Copper	22.800	-	20.23	mg/kg
11038	115377	12.5 - 15	16-MAY-93	Silver	7.500	-	0	mg/kg
11038	115377	12.5 - 15	16-MAY-93	Potassium	2480.000	-	2007.519	mg/kg
11038	115377	12.5 - 15	16-MAY-93	Molybdenum	8.600	-	.27	mg/kg
11039	115384	2.5 - 5	19-MAY-93	Molybdenum	2.600	-	.27	mg/kg
11039	115384	2.5 - 5	19-MAY-93	Sodium	264.000	-	227.947	mg/kg
11039	115385	12 - 14	19-MAY-93	Arsenic	11.500	-	9.704	mg/kg
11039	115385	12 - 14	19-MAY-93	Copper	23.200	-	20.23	mg/kg
11039	115385	12 - 14	19-MAY-93	Silver	7.400	-	0	mg/kg
11039	115385	12 - 14	19-MAY-93	Molybdenum	9.000	-	.27	mg/kg
11040	115392	2.5 - 5	20-MAY-93	Beryllium	.690	-	.62	mg/kg
11040	115392	2.5 - 5	20-MAY-93	Silver	6.300	-	0	mg/kg
11040	115392	2.5 - 5	20-MAY-93	Molybdenum	6.400	-	.27	mg/kg
11040	115393	12.5 - 15	20-MAY-93	Arsenic	10.400	J	9.704	mg/kg
11040	115393	12.5 - 15	20-MAY-93	Molybdenum	8.600	-	.27	mg/kg

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
METALS (Continued)								
11040	115393	12.5 - 15	20-MAY-93	Beryllium	.650	-	.62	mg/kg
11040	115393	12.5 - 15	20-MAY-93	Copper	21.800	-	20.23	mg/kg
11040	115393	12.5 - 15	20-MAY-93	Silver	7.700	-	0	mg/kg
11041	115389	0 - 2.5	19-MAY-93	Magnesium	45400.000	-	43052.339	mg/kg
11041	115389	0 - 2.5	19-MAY-93	Silver	3.600	J	0	mg/kg
11041	115389	0 - 2.5	19-MAY-93	Molybdenum	4.700	J	.27	mg/kg
11041	115390	12.5 - 15	19-MAY-93	Molybdenum	5.900	J	.27	mg/kg
11041	115390	12.5 - 15	19-MAY-93	Silver	4.300	J	0	mg/kg
1982	111484	0 - 2.5	06-MAY-93	Beryllium	.960	-	.62	mg/kg
1982	111484	0 - 2.5	06-MAY-93	Cadmium	1.300	-	.91	mg/kg
1983	111476	1.5 - 2.5	03-MAY-93	Beryllium	1.700	-	.62	mg/kg
1983	111476	1.5 - 2.5	03-MAY-93	Molybdenum	.860	-	.27	mg/kg
1983	111476	1.5 - 2.5	03-MAY-93	Cadmium	.990	-	.91	mg/kg
1983	111477	2.5 - 5	03-MAY-93	Beryllium	1.800	-	.62	mg/kg
1983	111477	2.5 - 5	03-MAY-93	Cadmium	1.100	-	.91	mg/kg
1983	111477	2.5 - 5	03-MAY-93	Molybdenum	1.700	-	.27	mg/kg
1983	111477	2.5 - 5	03-MAY-93	Copper	20.900	-	20.23	mg/kg
1984	111466	2.5 - 5	01-MAY-93	Beryllium	1.300	-	.62	mg/kg
1984	111466	2.5 - 5	01-MAY-93	Silicon	1690.000	J	1069.496	mg/kg
1984	111466	2.5 - 5	01-MAY-93	Cadmium	1.500	-	.91	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Barium	163.000	J	121.064	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Silicon	1410.000	J	1069.496	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Potassium	2330.000	J	2007.519	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Nickel	36.500	-	34.747	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Manganese	1130.000	J	1045.407	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Beryllium	1.400	-	.62	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Chromium	22.500	-	20.953	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Copper	26.900	-	20.23	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Iron	32500.000	J	31188.164	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Cobalt	20.400	-	15.929	mg/kg
1984	111468	12.5 - 15	01-MAY-93	Cadmium	2.000	-	.91	mg/kg
1985	111441	2 - 4	26-APR-93	Beryllium	1.300	-	.62	mg/kg
1985	111441	2 - 4	26-APR-93	Silver	.430	-	0	mg/kg
1985	111441	2 - 4	26-APR-93	Molybdenum	1.600	-	.27	mg/kg
1985	111448	15 - 17	27-APR-93	Beryllium	1.300	-	.62	mg/kg
1985	111448	15 - 17	27-APR-93	Molybdenum	1.600	-	.27	mg/kg
1986	111452	2.5 - 5	28-APR-93	Beryllium	1.600	-	.62	mg/kg
1986	111452	2.5 - 5	28-APR-93	Molybdenum	1.100	-	.27	mg/kg
1986	111458	12.5 - 15	30-APR-93	Beryllium	1.400	-	.62	mg/kg
1986	111458	12.5 - 15	30-APR-93	Cadmium	1.400	-	.91	mg/kg
1987	115357	5 - 7.5	13-MAY-93	Aluminum	16300.000	-	16277.291	mg/kg
1987	115357	5 - 7.5	13-MAY-93	Zinc	84.700	J	73.158	mg/kg

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
METALS (Continued)								
1987	115357	5 - 7.5	13-MAY-93	Silicon	1240.000 J	1069.496	mg/kg	
1987	115357	5 - 7.5	13-MAY-93	Molybdenum	2.200 -	.27	mg/kg	
1987	115357	5 - 7.5	13-MAY-93	Copper	21.600 -	20.23	mg/kg	
1987	115357	5 - 7.5	13-MAY-93	Cadmium	1.400 -	.91	mg/kg	
1987	115357	5 - 7.5	13-MAY-93	Barium	142.000 J	121.064	mg/kg	
1987	115357	5 - 7.5	13-MAY-93	Beryllium	1.300 -	.62	mg/kg	
1987	115359	12.5 - 15	13-MAY-93	Beryllium	.860 -	.62	mg/kg	
1987	115359	12.5 - 15	13-MAY-93	Molybdenum	2.900 -	.27	mg/kg	
1988	115350	2.5 - 5	12-MAY-93	Barium	122.000 J	121.064	mg/kg	
1988	115350	2.5 - 5	12-MAY-93	Molybdenum	1.300 -	.27	mg/kg	
1988	115350	2.5 - 5	12-MAY-93	Copper	22.700 -	20.23	mg/kg	
1988	115350	2.5 - 5	12-MAY-93	Cadmium	1.100 -	.91	mg/kg	
1988	115350	2.5 - 5	12-MAY-93	Beryllium	1.500 -	.62	mg/kg	
1988	115351	17.5 - 20	12-MAY-93	Barium	124.000 J	121.064	mg/kg	
1988	115351	17.5 - 20	12-MAY-93	Molybdenum	2.500 -	.27	mg/kg	
1988	115351	17.5 - 20	12-MAY-93	Cadmium	1.100 -	.91	mg/kg	
1988	115351	17.5 - 20	12-MAY-93	Beryllium	1.400 -	.62	mg/kg	
1988	115351	17.5 - 20	12-MAY-93	Calcium	151000.000 -	150000	mg/kg	
1989	115362	2.5 - 5	14-MAY-93	Copper	21.900 J	20.23	mg/kg	
1989	115362	2.5 - 5	14-MAY-93	Silver	5.000 -	0	mg/kg	
1989	115362	2.5 - 5	14-MAY-93	Molybdenum	5.000 -	.27	mg/kg	
1989	115362	2.5 - 5	14-MAY-93	Lead	16.900 J	15.78	mg/kg	
1989	115363	12.5 - 15	14-MAY-93	Molybdenum	8.200 -	.27	mg/kg	
1989	115363	12.5 - 15	14-MAY-93	Silver	5.900 -	0	mg/kg	
1989	115363	12.5 - 15	14-MAY-93	Potassium	2470.000 -	2007.519	mg/kg	
1990	115329	6 - 9	10-MAY-93	Beryllium	1.400 -	.62	mg/kg	
1990	115329	6 - 9	10-MAY-93	Molybdenum	1.200 -	.27	mg/kg	
1990	115335	17.5 - 20	10-MAY-93	Beryllium	1.000 J	.62	mg/kg	
1990	115335	17.5 - 20	10-MAY-93	Molybdenum	2.200 -	.27	mg/kg	
1991	115319	7.5 - 10	06-MAY-93	Arsenic	13.900 -	9.704	mg/kg	
1991	115319	7.5 - 10	06-MAY-93	Lead	17.300 J	15.78	mg/kg	
1991	115319	7.5 - 10	06-MAY-93	Copper	25.800 J	20.23	mg/kg	
1991	115319	7.5 - 10	06-MAY-93	Cadmium	.940 -	.91	mg/kg	
1991	115319	7.5 - 10	06-MAY-93	Beryllium	.690 -	.62	mg/kg	
1991	115321	12 - 15	06-MAY-93	Aluminum	16900.000 -	16277.291	mg/kg	
1991	115321	12 - 15	06-MAY-93	Copper	24.200 J	20.23	mg/kg	
1991	115321	12 - 15	06-MAY-93	Cadmium	1.200 -	.91	mg/kg	
1991	115321	12 - 15	06-MAY-93	Beryllium	.840 -	.62	mg/kg	
1992	115343	7.5 - 10	11-MAY-93	Barium	123.000 -	121.064	mg/kg	
1992	115343	7.5 - 10	11-MAY-93	Potassium	2020.000 -	2007.519	mg/kg	
1992	115343	7.5 - 10	11-MAY-93	Molybdenum	.880 -	.27	mg/kg	
1992	115343	7.5 - 10	11-MAY-93	Chromium	36.900 -	20.953	mg/kg	

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
METALS (Continued)								
1992	115343	7.5 - 10	11-MAY-93	Cadmium	.930	-	.91	mg/kg
1992	115343	7.5 - 10	11-MAY-93	Beryllium	1.500	-	.62	mg/kg
1992	115346	17.5 - 20	11-MAY-93	Beryllium	1.400	-	.62	mg/kg
1992	115346	17.5 - 20	11-MAY-93	Potassium	2200.000	-	2007.519	mg/kg
1992	115346	17.5 - 20	11-MAY-93	Cadmium	1.300	-	.91	mg/kg
1992	115346	17.5 - 20	11-MAY-93	Cyanide	1.000	J	.17	mg/kg
1992	115346	17.5 - 20	11-MAY-93	Molybdenum	1.800	-	.27	mg/kg
1993	115339	2.5 - 5	11-MAY-93	Beryllium	.720	-	.62	mg/kg
1993	115339	2.5 - 5	11-MAY-93	Cadmium	1.100	-	.91	mg/kg
RADIONUCLIDES								
11036	115380	17 - 19	17-MAY-93	U-235/236	.750	J	.142	pCi/g
11036	115380	17 - 19	17-MAY-93	U-TOTAL	3.100	J	2.54	mg/kg
11036	115381	2.5 - 5	17-MAY-93	CS-137	.522	-	0	pCi/g
11036	115381	2.5 - 5	17-MAY-93	SR-90	1.990	J	.56	pCi/g
11036	115381	2.5 - 5	17-MAY-93	RA-228	6.650	-	1.325	pCi/g
11036	115381	2.5 - 5	17-MAY-93	U-238	577.000	-	1.122	pCi/g
11036	115381	2.5 - 5	17-MAY-93	U-235/236	28.900	-	.142	pCi/g
11036	115381	2.5 - 5	17-MAY-93	U-234	553.000	-	1.034	pCi/g
11036	115381	2.5 - 5	17-MAY-93	TH-TOTAL	75.600	-	9.47	mg/kg
11036	115381	2.5 - 5	17-MAY-93	TH-232	8.220	-	1.269	pCi/g
11036	115381	2.5 - 5	17-MAY-93	TH-230	720.000	-	1.897	pCi/g
11036	115381	2.5 - 5	17-MAY-93	TH-228	9.360	-	1.341	pCi/g
11036	115381	2.5 - 5	17-MAY-93	TC-99	5.130	J	0	pCi/g
11036	115381	2.5 - 5	17-MAY-93	U-TOTAL	1770.000	-	2.54	mg/kg
11036	115381	2.5 - 5	17-MAY-93	NP-237	1.670	N	0	pCi/g
11036	115381	2.5 - 5	17-MAY-93	PU-238	.337	J	0	pCi/g
11036	115381	2.5 - 5	17-MAY-93	PU-239/240	.022	J	0	pCi/g
11036	115381	2.5 - 5	17-MAY-93	RA-226	113.000	-	1.47	pCi/g
11037	115371	5 - 7.5	15-MAY-93	PU-238	.030	J	0	pCi/g
11037	115371	5 - 7.5	15-MAY-93	U-TOTAL	5.010	J	2.54	mg/kg
11037	115371	5 - 7.5	15-MAY-93	U-238	1.190	-	1.122	pCi/g
11037	115372	17.5 - 20	15-MAY-93	U-234	1.470	-	1.034	pCi/g
11037	115372	17.5 - 20	15-MAY-93	U-238	1.560	-	1.122	pCi/g
11037	115372	17.5 - 20	15-MAY-93	U-TOTAL	5.500	J	2.54	mg/kg
11038	115377	12.5 - 15	16-MAY-93	PU-238	.021	J	0	pCi/g
11038	115377	12.5 - 15	16-MAY-93	U-TOTAL	5.320	J	2.54	mg/kg
11039	115384	2.5 - 5	19-MAY-93	CS-137	.380	-	0	pCi/g
11039	115384	2.5 - 5	19-MAY-93	U-TOTAL	375.000	-	2.54	mg/kg
11039	115384	2.5 - 5	19-MAY-93	U-238	119.000	J	1.122	pCi/g
11039	115384	2.5 - 5	19-MAY-93	U-235/236	5.720	J	.142	pCi/g
11039	115384	2.5 - 5	19-MAY-93	U-234	97.000	J	1.034	pCi/g

TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>RADIOMUCLIDES (Continued)</u>								
11039	115384	2.5 - 5	19-MAY-93	TH-230	4.300	J	1.897	pCi/g
11039	115384	2.5 - 5	19-MAY-93	TC-99	.840	J	0	pCi/g
11039	115384	2.5 - 5	19-MAY-93	PU-239/240	.080	J	0	pCi/g
11039	115384	2.5 - 5	19-MAY-93	PU-238	.140	J	0	pCi/g
11039	115384	2.5 - 5	19-MAY-93	NP-237	.190	N	0	pCi/g
11039	115385	12 - 14	19-MAY-93	NP-237	.078	N	0	pCi/g
11039	115385	12 - 14	19-MAY-93	TH-232	5.160	-	1.269	pCi/g
11039	115385	12 - 14	19-MAY-93	U-234	1.100	J	1.034	pCi/g
11039	115385	12 - 14	19-MAY-93	TH-TOTAL	47.000	-	9.47	mg/kg
11039	115385	12 - 14	19-MAY-93	U-TOTAL	6.080	J	2.54	mg/kg
11039	115385	12 - 14	19-MAY-93	U-238	1.180	J	1.122	pCi/g
11039	115385	12 - 14	19-MAY-93	TH-230	4.700	-	1.897	pCi/g
11039	115385	12 - 14	19-MAY-93	TH-228	2.980	-	1.341	pCi/g
11039	115385	12 - 14	19-MAY-93	PU-238	.045	J	0	pCi/g
11040	115392	2.5 - 5	20-MAY-93	PU-238	.039	J	0	pCi/g
11040	115392	2.5 - 5	20-MAY-93	U-TOTAL	8.490	J	2.54	mg/kg
11040	115392	2.5 - 5	20-MAY-93	U-238	1.840	J	1.122	pCi/g
11040	115392	2.5 - 5	20-MAY-93	PU-239/240	.029	J	0	pCi/g
11040	115392	2.5 - 5	20-MAY-93	U-234	1.320	J	1.034	pCi/g
11041	115389	0 - 2.5	19-MAY-93	NP-237	.117	N	0	pCi/g
11041	115389	0 - 2.5	19-MAY-93	PU-238	.257	J	0	pCi/g
11041	115389	0 - 2.5	19-MAY-93	U-TOTAL	40.700	J	2.54	mg/kg
11041	115389	0 - 2.5	19-MAY-93	U-238	12.500	J	1.122	pCi/g
11041	115389	0 - 2.5	19-MAY-93	U-235/236	.382	J	.142	pCi/g
11041	115389	0 - 2.5	19-MAY-93	U-234	8.270	J	1.034	pCi/g
11041	115389	0 - 2.5	19-MAY-93	TH-TOTAL	16.000	-	9.47	mg/kg
11041	115389	0 - 2.5	19-MAY-93	TH-232	1.750	-	1.269	pCi/g
11041	115389	0 - 2.5	19-MAY-93	TH-228	2.090	-	1.341	pCi/g
11041	115389	0 - 2.5	19-MAY-93	TC-99	.754	J	0	pCi/g
11041	115389	0 - 2.5	19-MAY-93	RA-228	2.140	-	1.325	pCi/g
11041	115389	0 - 2.5	19-MAY-93	PU-239/240	.089	J	0	pCi/g
11041	115390	12.5 - 15	19-MAY-93	NP-237	.110	N	0	pCi/g
11041	115390	12.5 - 15	19-MAY-93	PU-239/240	.038	J	0	pCi/g
11041	115390	12.5 - 15	19-MAY-93	U-TOTAL	4.710	J	2.54	mg/kg
11041	115390	12.5 - 15	19-MAY-93	PU-238	.040	J	0	pCi/g
1982	111484	0 - 2.5	06-MAY-93	NP-237	.340	N	0	pCi/g
1982	111484	0 - 2.5	06-MAY-93	PU-238	.100	J	0	pCi/g
1982	111484	0 - 2.5	06-MAY-93	PU-239/240	.060	J	0	pCi/g
1982	111484	0 - 2.5	06-MAY-93	U-238	20.300	-	1.122	pCi/g
1982	111484	0 - 2.5	06-MAY-93	U-TOTAL	64.800	-	2.54	mg/kg
1982	111484	0 - 2.5	06-MAY-93	U-234	11.300	-	1.034	pCi/g
1982	111487	7.5 - 10	06-MAY-93	NP-237	.310	N	0	pCi/g

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)									
1982	111487	7.5 - 10	06-MAY-93	PU-239/240	.970	-		0	pCi/g
1982	111487	7.5 - 10	06-MAY-93	U-TOTAL	4.830	J		2.54	mg/kg
1982	111487	7.5 - 10	06-MAY-93	PU-238	.090	J		0	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	CS-137	.160	J		0	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	U-TOTAL	94.300	-		2.54	mg/kg
1983	111476	1.5 - 2.5	03-MAY-93	U-238	30.300	-		1.122	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	U-235/236	1.660	-		.142	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	U-234	32.000	-		1.034	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	TH-TOTAL	18.800	-		9.47	mg/kg
1983	111476	1.5 - 2.5	03-MAY-93	TH-232	2.070	-		1.269	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	TH-230	3.470	-		1.897	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	TH-228	2.690	-		1.341	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	RA-228	2.390	-		1.325	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	PU-239/240	.068	J		0	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	PU-238	.433	J		0	pCi/g
1983	111476	1.5 - 2.5	03-MAY-93	NP-237	.237	N		0	pCi/g
1983	111477	2.5 - 5	03-MAY-93	NP-237	.185	N		0	pCi/g
1983	111477	2.5 - 5	03-MAY-93	PU-239/240	.049	J		0	pCi/g
1983	111477	2.5 - 5	03-MAY-93	PU-238	.033	J		0	pCi/g
1983	111477	2.5 - 5	03-MAY-93	U-238	10.900	-		1.122	pCi/g
1983	111477	2.5 - 5	03-MAY-93	U-TOTAL	36.800	-		2.54	mg/kg
1983	111477	2.5 - 5	03-MAY-93	U-235/236	.220	J		.142	pCi/g
1983	111477	2.5 - 5	03-MAY-93	U-234	3.700	-		1.034	pCi/g
1983	111477	2.5 - 5	03-MAY-93	TH-230	4.260	-		1.897	pCi/g
1983	111480	17.5 - 20	05-MAY-93	NP-237	.280	N		0	pCi/g
1983	111480	17.5 - 20	05-MAY-93	PU-239/240	.080	J		0	pCi/g
1983	111480	17.5 - 20	05-MAY-93	U-TOTAL	3.180	J		2.54	mg/kg
1983	111480	17.5 - 20	05-MAY-93	PU-238	.040	J		0	pCi/g
1984	111466	2.5 - 5	01-MAY-93	NP-237	.050	N		0	pCi/g
1984	111466	2.5 - 5	01-MAY-93	PU-238	.027	J		0	pCi/g
1984	111466	2.5 - 5	01-MAY-93	PU-239/240	.110	J		0	pCi/g
1984	111466	2.5 - 5	01-MAY-93	U-234	1.639	J		1.034	pCi/g
1984	111466	2.5 - 5	01-MAY-93	U-238	1.730	J		1.122	pCi/g
1984	111466	2.5 - 5	01-MAY-93	U-TOTAL	13.300	J		2.54	mg/kg
1984	111468	12.5 - 15	01-MAY-93	NP-237	.047	N		0	pCi/g
1984	111468	12.5 - 15	01-MAY-93	PU-238	.040	J		0	pCi/g
1984	111468	12.5 - 15	01-MAY-93	U-234	1.110	J		1.034	pCi/g
1984	111468	12.5 - 15	01-MAY-93	U-TOTAL	12.700	J		2.54	mg/kg
1984	111468	12.5 - 15	01-MAY-93	U-238	1.240	J		1.122	pCi/g
1984	111468	12.5 - 15	01-MAY-93	PU-239/240	.680	-		0	pCi/g
1985	111441	2 - 4	26-APR-93	CS-137	.250	-		0	pCi/g
1985	111441	2 - 4	26-APR-93	U-TOTAL	62.300	-		2.54	mg/kg

TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)								
1985	111441	2 - 4	26-APR-93	U-238	19.770	-	1.122	pCi/g
1985	111441	2 - 4	26-APR-93	U-235/236	.680	-	.142	pCi/g
1985	111441	2 - 4	26-APR-93	U-234	11.570	-	1.034	pCi/g
1985	111441	2 - 4	26-APR-93	TH-230	15.360	-	1.897	pCi/g
1985	111441	2 - 4	26-APR-93	RA-226	1.870	-	1.47	pCi/g
1985	111441	2 - 4	26-APR-93	PU-239/240	.049	J	0	pCi/g
1985	111441	2 - 4	26-APR-93	NP-237	.462	N	0	pCi/g
1985	111448	15 - 17	27-APR-93	NP-237	.099	N	0	pCi/g
1985	111448	15 - 17	27-APR-93	PU-238	.032	J	0	pCi/g
1985	111448	15 - 17	27-APR-93	SR-90	.670	J	.56	pCi/g
1985	111448	15 - 17	27-APR-93	TH-230	3.060	-	1.897	pCi/g
1985	111448	15 - 17	27-APR-93	U-TOTAL	5.910	-	2.54	mg/kg
1985	111448	15 - 17	27-APR-93	U-238	1.520	-	1.122	pCi/g
1985	111448	15 - 17	27-APR-93	U-234	1.210	-	1.034	pCi/g
1986	111458	12.5 - 15	30-APR-93	NP-237	.050	N	0	pCi/g
1986	111458	12.5 - 15	30-APR-93	U-TOTAL	11.400	J	2.54	mg/kg
1986	111458	12.5 - 15	30-APR-93	PU-239/240	1.670	-	0	pCi/g
1986	111458	12.5 - 15	30-APR-93	PU-238	.050	J	0	pCi/g
1987	115357	5 - 7.5	13-MAY-93	NP-237	.116	N	0	pCi/g
1987	115357	5 - 7.5	13-MAY-93	U-TOTAL	28.800	-	2.54	mg/kg
1987	115357	5 - 7.5	13-MAY-93	U-238	9.350	-	1.122	pCi/g
1987	115357	5 - 7.5	13-MAY-93	U-235/236	.301	J	.142	pCi/g
1987	115357	5 - 7.5	13-MAY-93	U-234	3.560	-	1.034	pCi/g
1987	115357	5 - 7.5	13-MAY-93	PU-238	.019	J	0	pCi/g
1987	115357	5 - 7.5	13-MAY-93	TH-TOTAL	9.750	-	9.47	mg/kg
1987	115357	5 - 7.5	13-MAY-93	RA-228	1.370	-	1.325	pCi/g
1987	115359	12.5 - 15	13-MAY-93	U-TOTAL	3.940	J	2.54	mg/kg
1988	115350	2.5 - 5	12-MAY-93	CS-137	.091	J	0	pCi/g
1988	115350	2.5 - 5	12-MAY-93	U-TOTAL	109.000	-	2.54	mg/kg
1988	115350	2.5 - 5	12-MAY-93	U-238	37.800	-	1.122	pCi/g
1988	115350	2.5 - 5	12-MAY-93	U-235/236	1.430	-	.142	pCi/g
1988	115350	2.5 - 5	12-MAY-93	U-234	24.600	-	1.034	pCi/g
1988	115350	2.5 - 5	12-MAY-93	TH-TOTAL	17.800	-	9.47	mg/kg
1988	115350	2.5 - 5	12-MAY-93	TH-232	1.960	-	1.269	pCi/g
1988	115350	2.5 - 5	12-MAY-93	TH-230	2.330	-	1.897	pCi/g
1988	115350	2.5 - 5	12-MAY-93	TH-228	1.920	-	1.341	pCi/g
1988	115350	2.5 - 5	12-MAY-93	RA-228	2.560	-	1.325	pCi/g
1988	115350	2.5 - 5	12-MAY-93	PU-239/240	.056	J	0	pCi/g
1988	115350	2.5 - 5	12-MAY-93	PU-238	.328	J	0	pCi/g
1988	115350	2.5 - 5	12-MAY-93	NP-237	.101	N	0	pCi/g
1988	115351	17.5 - 20	12-MAY-93	PU-238	.015	J	0	pCi/g
1988	115351	17.5 - 20	12-MAY-93	PU-239/240	.015	J	0	pCi/g

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>RADIONUCLIDES (Continued)</u>								
1988	115351	17.5 - 20	12-MAY-93	U-TOTAL	3.620 J	2.54	mg/kg	
1989	115362	2.5 - 5	14-MAY-93	PU-238	.060 J	0	pCi/g	
1989	115362	2.5 - 5	14-MAY-93	U-TOTAL	33.500 -	2.54	mg/kg	
1989	115362	2.5 - 5	14-MAY-93	U-238	10.600 -	1.122	pCi/g	
1989	115362	2.5 - 5	14-MAY-93	U-235/236	.370 J	.142	pCi/g	
1989	115362	2.5 - 5	14-MAY-93	U-234	5.660 -	1.034	pCi/g	
1989	115363	12.5 - 15	14-MAY-93	SR-90	.710 J	.56	pCi/g	
1989	115363	12.5 - 15	14-MAY-93	U-TOTAL	5.150 J	2.54	mg/kg	
1990	115329	6 - 9	10-MAY-93	NP-237	.140 N	0	pCi/g	
1990	115329	6 - 9	10-MAY-93	PU-239/240	.055 J	0	pCi/g	
1990	115329	6 - 9	10-MAY-93	TH-230	3.420 J	1.897	pCi/g	
1990	115329	6 - 9	10-MAY-93	TH-TOTAL	12.600 J	9.47	mg/kg	
1990	115329	6 - 9	10-MAY-93	U-TOTAL	446.000 -	2.54	mg/kg	
1990	115329	6 - 9	10-MAY-93	U-238	170.000 -	1.122	pCi/g	
1990	115329	6 - 9	10-MAY-93	U-235/236	8.040 -	.142	pCi/g	
1990	115329	6 - 9	10-MAY-93	U-234	71.200 -	1.034	pCi/g	
1990	115329	6 - 9	10-MAY-93	TH-232	1.370 J	1.269	pCi/g	
1990	115329	6 - 9	10-MAY-93	TH-228	1.400 J	1.341	pCi/g	
1990	115329	6 - 9	10-MAY-93	RA-228	1.350 -	1.325	pCi/g	
1990	115329	6 - 9	10-MAY-93	PU-238	.232 J	0	pCi/g	
1990	115335	17.5 - 20	10-MAY-93	NP-237	.116 N	0	pCi/g	
1990	115335	17.5 - 20	10-MAY-93	U-TOTAL	3.060 J	2.54	mg/kg	
1990	115335	17.5 - 20	10-MAY-93	PU-239/240	.666 J	0	pCi/g	
1990	115335	17.5 - 20	10-MAY-93	PU-238	.043 J	0	pCi/g	
1991	115319	7.5 - 10	06-MAY-93	NP-237	.250 N	0	pCi/g	
1991	115319	7.5 - 10	06-MAY-93	PU-239/240	.030 J	0	pCi/g	
1991	115319	7.5 - 10	06-MAY-93	PU-238	.060 J	0	pCi/g	
1991	115319	7.5 - 10	06-MAY-93	U-234	2.610 J	1.034	pCi/g	
1991	115319	7.5 - 10	06-MAY-93	U-238	6.270 J	1.122	pCi/g	
1991	115319	7.5 - 10	06-MAY-93	U-TOTAL	25.400 J	2.54	mg/kg	
1991	115319	7.5 - 10	06-MAY-93	U-235/236	.200 J	.142	pCi/g	
1991	115321	12 - 15	06-MAY-93	NP-237	.300 N	0	pCi/g	
1991	115321	12 - 15	06-MAY-93	PU-239/240	.070 J	0	pCi/g	
1991	115321	12 - 15	06-MAY-93	U-TOTAL	3.240 J	2.54	mg/kg	
1991	115321	12 - 15	06-MAY-93	PU-238	.070 J	0	pCi/g	
1992	115343	7.5 - 10	11-MAY-93	CS-137	.101 J	0	pCi/g	
1992	115343	7.5 - 10	11-MAY-93	NP-237	.117 N	0	pCi/g	
1992	115343	7.5 - 10	11-MAY-93	PU-238	.102 J	0	pCi/g	
1992	115343	7.5 - 10	11-MAY-93	U-TOTAL	191.000 -	2.54	mg/kg	
1992	115343	7.5 - 10	11-MAY-93	U-238	60.400 -	1.122	pCi/g	
1992	115343	7.5 - 10	11-MAY-93	U-235/236	1.140 -	.142	pCi/g	
1992	115343	7.5 - 10	11-MAY-93	U-234	18.200 -	1.034	pCi/g	

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
<u>RADIONUCLIDES (Continued)</u>							
1992	115343	7.5 - 10	11-MAY-93	TH-TOTAL	12.000 J	9.47	mg/kg
1992	115343	7.5 - 10	11-MAY-93	TH-232	1.320 J	1.269	pCi/g
1992	115343	7.5 - 10	11-MAY-93	TH-230	2.050 J	1.897	pCi/g
1992	115343	7.5 - 10	11-MAY-93	TH-228	1.510 J	1.341	pCi/g
1992	115343	7.5 - 10	11-MAY-93	RA-228	1.390 -	1.325	pCi/g
1992	115343	7.5 - 10	11-MAY-93	PU-239/240	.036 J	0	pCi/g
1992	115346	17.5 - 20	11-MAY-93	NP-237	.351 N	0	pCi/g
1992	115346	17.5 - 20	11-MAY-93	PU-239/240	.112 J	0	pCi/g
1992	115346	17.5 - 20	11-MAY-93	U-TOTAL	3.500 -	2.54	mg/kg
1992	115346	17.5 - 20	11-MAY-93	U-238	1.170 -	1.122	pCi/g
1993	115339	2.5 - 5	11-MAY-93	NP-237	.252 N	0	pCi/g
1993	115339	2.5 - 5	11-MAY-93	PU-238	.023 J	0	pCi/g
1993	115339	2.5 - 5	11-MAY-93	PU-239/240	.023 J	0	pCi/g
1993	115339	2.5 - 5	11-MAY-93	U-234	7.330 -	1.034	pCi/g
1993	115339	2.5 - 5	11-MAY-93	U-238	15.300 -	1.122	pCi/g
1993	115339	2.5 - 5	11-MAY-93	U-TOTAL	38.900 -	2.54	mg/kg
1993	115339	2.5 - 5	11-MAY-93	U-235/236	.382 J	.142	pCi/g
1993	115339	2.5 - 5	11-MAY-93	TH-230	6.720 -	1.897	pCi/g
1993	115340	15 - 17.5	11-MAY-93	NP-237	.087 N	0	pCi/g
1993	115340	15 - 17.5	11-MAY-93	PU-238	.034 J	0	pCi/g
1993	115340	15 - 17.5	11-MAY-93	U-TOTAL	3.020 -	2.54	mg/kg
<u>VOLATILE ORGANICS</u>							
11036	115380	17 - 19	17-MAY-93	1,1-Dichloroethane	1.000 J	0	ug/kg
11036	115380	17 - 19	17-MAY-93	Toluene	13.000 -	0	ug/kg
11036	115381	2.5 - 5	17-MAY-93	1,1-Dichloroethane	55.000 -	0	ug/kg
11036	115381	2.5 - 5	17-MAY-93	Ethylbenzene	15.000 -	0	ug/kg
11036	115381	2.5 - 5	17-MAY-93	2-Butanone	13.000 -	0	ug/kg
11036	115381	2.5 - 5	17-MAY-93	Benzene	4.000 J	0	ug/kg
11036	115381	2.5 - 5	17-MAY-93	Vinyl chloride	2.000 J	0	ug/kg
11036	115381	2.5 - 5	17-MAY-93	Xylenes, Total	54.000 -	0	ug/kg
11036	115381	2.5 - 5	17-MAY-93	Toluene	4.000 J	0	ug/kg
11036	115381	2.5 - 5	17-MAY-93	Tetrachloroethene	2.000 J	0	ug/kg
11036	115381	2.5 - 5	17-MAY-93	Acetone	64.000 -	0	ug/kg
11037	115372	17.5 - 20	15-MAY-93	2-Hexanone	2.000 J	0	ug/kg
11037	115372	17.5 - 20	15-MAY-93	4-Methyl-2-pentanone	20.000 -	0	ug/kg
11037	115372	17.5 - 20	15-MAY-93	Acetone	6.000 J	0	ug/kg
11037	115372	17.5 - 20	15-MAY-93	Xylenes, Total	23.000 -	0	ug/kg
11037	115372	17.5 - 20	15-MAY-93	Toluene	4.000 J	0	ug/kg
11037	115372	17.5 - 20	15-MAY-93	Ethylbenzene	7.000 J	0	ug/kg
11038	115377	12.5 - 15	16-MAY-93	Toluene	5.000 J	0	ug/kg
11039	115384	2.5 - 5	19-MAY-93	2-Butanone	110.000 -	0	ug/kg

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
VOLATILE ORGANICS (Continued)							
11039	115384	2.5 - 5	19-MAY-93	Ethylbenzene	2.000	J	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	2-Hexanone	1.000	J	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Toluene	1.000	J	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Acetone	88.000	-	0 ug/kg
11039	115385	12 - 14	19-MAY-93	Toluene	54.000	-	0 ug/kg
11041	115389	0 - 2.5	19-MAY-93	Toluene	2.000	J	0 ug/kg
11041	115390	12.5 - 15	19-MAY-93	Toluene	2.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Toluene	2.000	J	0 ug/kg
1982	111487	7.5 - 10	06-MAY-93	Toluene	1.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	Toluene	2.000	J	0 ug/kg
1983	111480	17.5 - 20	05-MAY-93	Carbon disulfide	2.000	J	0 ug/kg
1984	111466	2.5 - 5	01-MAY-93	Toluene	2.000	J	0 ug/kg
1984	111468	12.5 - 15	01-MAY-93	Toluene	2.000	J	0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Toluene	1.000	J	0 ug/kg
1986	111458	12.5 - 15	30-APR-93	Acetone	9.000	J	0 ug/kg
1988	115350	2.5 - 5	12-MAY-93	1,2-Dichloroethene	2.000	J	0 ug/kg
1988	115350	2.5 - 5	12-MAY-93	Benzene	3.000	J	0 ug/kg
1988	115350	2.5 - 5	12-MAY-93	Xylenes, Total	260.000	-	0 ug/kg
1988	115350	2.5 - 5	12-MAY-93	Ethylbenzene	76.000	-	0 ug/kg
1988	115350	2.5 - 5	12-MAY-93	4-Methyl-2-pentanone	3.000	J	0 ug/kg
1988	115351	17.5 - 20	12-MAY-93	Xylenes, Total	1.000	J	0 ug/kg
1989	115363	12.5 - 15	14-MAY-93	Toluene	3.000	J	0 ug/kg
1990	115335	17.5 - 20	10-MAY-93	Toluene	5.000	J	0 ug/kg
1992	115343	7.5 - 10	11-MAY-93	Tetrachloroethene	1.000	J	0 ug/kg
2951	111432	0 - 5.1	21-APR-93	Acetone	15.000	J	0 ug/kg
SEMOVOLATILE ORGANICS							
11036	115380	17 - 19	17-MAY-93	bis(2-Ethylhexyl) phthalate	1600.000	-	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Anthracene	80.000	J	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Benzo(a)pyrene	230.000	J	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Benzo(g,h,i)perylene	130.000	J	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Chrysene	350.000	J	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Indeno(1,2,3-cd)pyrene	130.000	J	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Pyrene	490.000	J	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Phenanthrene	340.000	J	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Fluoranthene	630.000	J	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Benzo(b)fluoranthene	340.000	J	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Benzo(a)anthracene	280.000	J	0 ug/kg
11037	115371	5 - 7.5	15-MAY-93	Benzo(a)anthracene	48.000	J	0 ug/kg
11037	115371	5 - 7.5	15-MAY-93	Benzo(b)fluoranthene	67.000	J	0 ug/kg
11037	115371	5 - 7.5	15-MAY-93	Pyrene	72.000	J	0 ug/kg

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
<u>SEMOVOLATILE ORGANICS (Continued)</u>							
11037	115371	5 - 7.5	15-MAY-93	Fluoranthene	89.000	J	0 ug/kg
11037	115371	5 - 7.5	15-MAY-93	Chrysene	48.000	J	0 ug/kg
11037	115372	17.5 - 20	15-MAY-93	Di-n-octyl phthalate	55.000	J	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Anthracene	73.000	J	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Benzo(a)pyrene	300.000	J	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Benzo(g,h,i)perylene	200.000	J	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Indeno(1,2,3-cd)pyrene	210.000	J	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Pyrene	630.000	-	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Phenanthrene	400.000	-	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Fluoranthene	780.000	-	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Dibenzo(a,h)anthracene	96.000	J	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Chrysene	400.000	-	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Benzo(k)fluoranthene	360.000	J	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Benzo(b)fluoranthene	300.000	J	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Benzo(a)anthracene	300.000	J	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	2-Methylnaphthalene	46000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Fluorene	180000.000	J	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Fluoranthene	790000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Dibenzofuran	120000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Dibenzo(a,h)anthracene	79000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Chrysene	310000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Carbazole	89000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Benzo(k)fluoranthene	140000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Benzo(g,h,i)perylene	150000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Benzo(b)fluoranthene	220000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Benzo(a)pyrene	260000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Pyrene	610000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Phenanthrene	900000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Naphthalene	96000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Indeno(1,2,3-cd)pyrene	150000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Benzo(a)anthracene	310000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Anthracene	250000.000	-	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Acenaphthylene	2500.000	J	0 ug/kg
11039	115384	2.5 - 5	19-MAY-93	Acenaphthene	140000.000	-	0 ug/kg
11039	115385	12 - 14	19-MAY-93	2-Methylnaphthalene	100.000	J	0 ug/kg
11039	115385	12 - 14	19-MAY-93	Anthracene	580.000	-	0 ug/kg
11039	115385	12 - 14	19-MAY-93	Benzo(a)anthracene	1000.000	-	0 ug/kg
11039	115385	12 - 14	19-MAY-93	Acenaphthene	370.000	J	0 ug/kg
11039	115385	12 - 14	19-MAY-93	Naphthalene	320.000	J	0 ug/kg
11039	115385	12 - 14	19-MAY-93	Indeno(1,2,3-cd)pyrene	410.000	J	0 ug/kg
11039	115385	12 - 14	19-MAY-93	Fluorene	430.000	-	0 ug/kg
11039	115385	12 - 14	19-MAY-93	Fluoranthene	2400.000	-	0 ug/kg

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
<u>SEMIVOLATILE ORGANICS (Continued)</u>								
11039	115385	12 - 14	19-MAY-93	Dibenzofuran	260.000	J	0	ug/kg
11039	115385	12 - 14	19-MAY-93	Dibenzo(a,h)anthracene	180.000	J	0	ug/kg
11039	115385	12 - 14	19-MAY-93	Chrysene	920.000	-	0	ug/kg
11039	115385	12 - 14	19-MAY-93	Carbazole	210.000	J	0	ug/kg
11039	115385	12 - 14	19-MAY-93	Benzo(k)fluoranthene	740.000	-	0	ug/kg
11039	115385	12 - 14	19-MAY-93	Pyrene	1900.000	-	0	ug/kg
11039	115385	12 - 14	19-MAY-93	Phenanthrene	2600.000	-	0	ug/kg
11039	115385	12 - 14	19-MAY-93	Benzo(g,h,i)perylene	380.000	J	0	ug/kg
11039	115385	12 - 14	19-MAY-93	Benzo(b)fluoranthene	1200.000	-	0	ug/kg
11039	115385	12 - 14	19-MAY-93	Benzo(a)pyrene	760.000	-	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Anthracene	100.000	J	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Benzo(a)pyrene	320.000	J	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Benzo(a)anthracene	350.000	J	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Benzo(k)fluoranthene	290.000	J	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Benzo(b)fluoranthene	290.000	J	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	bis(2-Ethylhexyl) phthalate	48.000	J	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Pyrene	640.000	-	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Phenanthrene	440.000	-	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Indeno(1,2,3-cd)pyrene	200.000	J	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Fluoranthene	770.000	-	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Dibenzo(a,h)anthracene	96.000	J	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Chrysene	370.000	J	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Carbazole	58.000	J	0	ug/kg
11040	115392	2.5 - 5	20-MAY-93	Benzo(g,h,i)perylene	190.000	J	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Acenaphthene	5800.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Benzo(a)pyrene	13000.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Dibenzo(a,h)anthracene	3000.000	J	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Pyrene	38000.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Phenanthrene	48000.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Naphthalene	1700.000	J	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Indeno(1,2,3-cd)pyrene	6500.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Fluorene	6000.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Fluoranthene	48000.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Dibenzofuran	3000.000	J	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Benzo(k)fluoranthene	25000.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Chrysene	18000.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Carbazole	4200.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Benzo(g,h,i)perylene	5800.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Anthracene	9700.000	-	0	ug/kg
11041	115389	0 - 2.5	19-MAY-93	Benzo(a)anthracene	18000.000	-	0	ug/kg
1982	111484	0 - 2.5	06-MAY-93	Acenaphthene	55.000	J	0	ug/kg
1982	111484	0 - 2.5	06-MAY-93	Indeno(1,2,3-cd)pyrene	91.000	J	0	ug/kg

TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
SEMIVOLATILE ORGANICS (Continued)							
1982	111484	0 - 2.5	06-MAY-93	Fluorene	46.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Fluoranthene	480.000	-	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Dibenzo(a,h)anthracene	40.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Chrysene	200.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Benzo(k)fluoranthene	120.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Benzo(g,h,i)perylene	86.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Benzo(b)fluoranthene	180.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Benzo(a)pyrene	120.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	bis(2-Ethylhexyl) phthalate	260.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Pyrene	350.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Phenanthrene	410.000	-	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Benzo(a)anthracene	170.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Anthracene	77.000	J	0 ug/kg
1982	111487	7.5 - 10	06-MAY-93	bis(2-Ethylhexyl) phthalate	250.000	J	0 ug/kg
1983	111476	1.5 - 2.5	03-MAY-93	Benzo(a)anthracene	49.000	J	0 ug/kg
1983	111476	1.5 - 2.5	03-MAY-93	Benzo(a)pyrene	47.000	J	0 ug/kg
1983	111476	1.5 - 2.5	03-MAY-93	bis(2-Ethylhexyl) phthalate	3200.000	-	0 ug/kg
1983	111476	1.5 - 2.5	03-MAY-93	Pyrene	120.000	J	0 ug/kg
1983	111476	1.5 - 2.5	03-MAY-93	Phenanthrene	66.000	J	0 ug/kg
1983	111476	1.5 - 2.5	03-MAY-93	Fluoranthene	130.000	J	0 ug/kg
1983	111476	1.5 - 2.5	03-MAY-93	Benzo(k)fluoranthene	56.000	J	0 ug/kg
1983	111476	1.5 - 2.5	03-MAY-93	Benzo(b)fluoranthene	49.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	Benzo(a)anthracene	78.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	Pyrene	170.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	Phenanthrene	120.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	Indeno(1,2,3-cd)pyrene	45.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	Fluoranthene	190.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	Chrysene	99.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	Benzo(k)fluoranthene	97.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	Benzo(b)fluoranthene	66.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	Benzo(a)pyrene	64.000	J	0 ug/kg
1983	111477	2.5 - 5	03-MAY-93	bis(2-Ethylhexyl) phthalate	67.000	J	0 ug/kg
1984	111466	2.5 - 5	01-MAY-93	Fluoranthene	46.000	J	0 ug/kg
1984	111466	2.5 - 5	01-MAY-93	bis(2-Ethylhexyl) phthalate	700.000	-	0 ug/kg
1984	111466	2.5 - 5	01-MAY-93	Pyrene	44.000	J	0 ug/kg
1984	111468	12.5 - 15	01-MAY-93	bis(2-Ethylhexyl) phthalate	1000.000	-	0 ug/kg
1985	111441	2 - 4	26-APR-93	Acenaphthene	93.000	J	0 ug/kg
1985	111441	2 - 4	26-APR-93	Benzo(b)fluoranthene	1100.000	J	0 ug/kg
1985	111441	2 - 4	26-APR-93	Carbazole	67.000	J	0 ug/kg
1985	111441	2 - 4	26-APR-93	Dibenzofuran	38.000	J	0 ug/kg
1985	111441	2 - 4	26-APR-93	Dibenzo(a,h)anthracene	250.000	J	0 ug/kg
1985	111441	2 - 4	26-APR-93	bis(2-Ethylhexyl) phthalate	2500.000	J	0 ug/kg

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>SEMITRIVOLATILE ORGANICS (Continued)</u>							
1985	111441	2 - 4	26-APR-93	Pyrene	1500.000 J		0 ug/kg
1985	111441	2 - 4	26-APR-93	Phenanthrene	970.000 J		0 ug/kg
1985	111441	2 - 4	26-APR-93	Indeno(1,2,3-cd)pyrene	520.000 J		0 ug/kg
1985	111441	2 - 4	26-APR-93	Fluorene	83.000 J		0 ug/kg
1985	111441	2 - 4	26-APR-93	Fluoranthene	1700.000 J		0 ug/kg
1985	111441	2 - 4	26-APR-93	Chrysene	940.000 J		0 ug/kg
1985	111441	2 - 4	26-APR-93	Benzo(k)fluoranthene	700.000 J		0 ug/kg
1985	111441	2 - 4	26-APR-93	Benzo(g,h,i)perylene	420.000 J		0 ug/kg
1985	111441	2 - 4	26-APR-93	Benzo(a)anthracene	1100.000 J		0 ug/kg
1985	111441	2 - 4	26-APR-93	Benzo(a)pyrene	790.000 J		0 ug/kg
1985	111441	2 - 4	26-APR-93	Anthracene	180.000 J		0 ug/kg
1985	111448	15 - 17	27-APR-93	bis(2-Ethylhexyl) phthalate	1700.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Acenaphthene	83.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Pyrene	1100.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Phenanthrene	1100.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Indeno(1,2,3-cd)pyrene	230.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Fluorene	80.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Fluoranthene	1300.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Dibenzofuran	39.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Dibenzo(a,h)anthracene	120.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Chrysene	550.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Carbazole	68.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Benzo(k)fluoranthene	370.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Benzo(g,h,i)perylene	90.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Benzo(b)fluoranthene	480.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Benzo(a)pyrene	320.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Benzo(a)anthracene	490.000 J		0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Anthracene	140.000 J		0 ug/kg
1986	111458	12.5 - 15	30-APR-93	bis(2-Ethylhexyl) phthalate	950.000 -		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	2-Methylnaphthalene	97.000 J		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	bis(2-Ethylhexyl) phthalate	710.000 -		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Pyrene	1300.000 -		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Phenanthrene	1700.000 -		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Naphthalene	120.000 J		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Indeno(1,2,3-cd)pyrene	440.000 -		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Fluorene	280.000 J		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Fluoranthene	1900.000 -		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Dibenzofuran	160.000 J		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Dibenzo(a,h)anthracene	110.000 J		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Chrysene	740.000 -		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Carbazole	240.000 J		0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Benzo(k)fluoranthene	320.000 J		0 ug/kg

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND UNITS
SEMIVOLATILE ORGANICS (Continued)								
1987	115357	5 - 7.5	13-MAY-93	Benzo(b)fluoranthene	910.000	-	0	ug/kg
1987	115357	5 - 7.5	13-MAY-93	Benzo(a)pyrene	700.000	-	0	ug/kg
1987	115357	5 - 7.5	13-MAY-93	Benzo(g,h,i)perylene	170.000	J	0	ug/kg
1987	115357	5 - 7.5	13-MAY-93	Benzo(a)anthracene	730.000	-	0	ug/kg
1987	115357	5 - 7.5	13-MAY-93	Anthracene	450.000	-	0	ug/kg
1987	115359	12.5 - 15	13-MAY-93	bis(2-Ethylhexyl) phthalate	460.000	-	0	ug/kg
1988	115350	2.5 - 5	12-MAY-93	Fluoranthene	160.000	J	0	ug/kg
1988	115350	2.5 - 5	12-MAY-93	Pyrene	100.000	J	0	ug/kg
1988	115350	2.5 - 5	12-MAY-93	Phenanthrene	82.000	J	0	ug/kg
1988	115351	17.5 - 20	12-MAY-93	bis(2-Ethylhexyl) phthalate	410.000	-	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	4-Methylphenol	140.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Pyrene	270.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Phenanthrene	260.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Indeno(1,2,3-cd)pyrene	67.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Fluoranthene	340.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Di-n-butyl phthalate	170.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Chrysene	140.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Benzo(g,h,i)perylene	64.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Benzo(b)fluoranthene	220.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Benzo(a)pyrene	110.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Benzo(a)anthracene	170.000	J	0	ug/kg
1989	115362	2.5 - 5	14-MAY-93	Acenaphthene	90.000	J	0	ug/kg
1989	115363	12.5 - 15	14-MAY-93	Di-n-butyl phthalate	71.000	J	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Acenaphthene	260.000	J	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Carbazole	180.000	J	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Pyrene	900.000	-	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Phenanthrene	1200.000	-	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Naphthalene	46.000	J	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Indeno(1,2,3-cd)pyrene	280.000	J	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Fluorene	210.000	J	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Fluoranthene	1200.000	-	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Dibenzofuran	170.000	J	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Dibenzo(a,h)anthracene	68.000	J	0	ug/kg
1990	115329	6 - 9	10-MAY-93	bis(2-Ethylhexyl) phthalate	1100.000	-	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Chrysene	460.000	-	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Benzo(k)fluoranthene	210.000	J	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Benzo(g,h,i)perylene	170.000	J	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Benzo(b)fluoranthene	530.000	-	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Benzo(a)pyrene	420.000	-	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Benzo(a)anthracene	460.000	-	0	ug/kg
1990	115329	6 - 9	10-MAY-93	Anthracene	260.000	J	0	ug/kg
1990	115335	17.5 - 20	10-MAY-93	bis(2-Ethylhexyl) phthalate	490.000	-	0	ug/kg

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
SEMITRIVOLATILE ORGANICS (Continued)								
1991	115319	7.5 - 10	06-MAY-93	Acenaphthene	180.000	J	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	bis(2-Ethylhexyl) phthalate	300.000	J	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Pyrene	1300.000	-	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Phenanthrene	1500.000	-	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Naphthalene	84.000	J	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Indeno(1,2,3-cd)pyrene	320.000	J	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Fluorene	190.000	J	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Fluoranthene	1800.000	-	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Dibenzofuran	130.000	J	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Dibenzo(a,h)anthracene	140.000	J	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Chrysene	640.000	-	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Carbazole	98.000	J	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Benzo(k)fluoranthene	410.000	-	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Benzo(g,h,i)perylene	320.000	J	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Benzo(b)fluoranthene	540.000	-	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Benzo(a)pyrene	470.000	-	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Benzo(a)anthracene	560.000	-	0	ug/kg
1991	115319	7.5 - 10	06-MAY-93	Anthracene	300.000	J	0	ug/kg
1991	115321	12 - 15	06-MAY-93	bis(2-Ethylhexyl) phthalate	810.000	-	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Acenaphthene	47.000	J	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Benzo(a)anthracene	380.000	J	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Anthracene	70.000	J	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Benzo(a)pyrene	510.000	-	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	bis(2-Ethylhexyl) phthalate	340.000	J	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Pyrene	790.000	J	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Phenanthrene	490.000	-	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Indeno(1,2,3-cd)pyrene	260.000	J	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Fluoranthene	870.000	-	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Chrysene	560.000	-	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Carbazole	62.000	J	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Benzo(g,h,i)perylene	420.000	-	0	ug/kg
1992	115343	7.5 - 10	11-MAY-93	Benzo(b)fluoranthene	1200.000	-	0	ug/kg
1992	115346	17.5 - 20	11-MAY-93	bis(2-Ethylhexyl) phthalate	310.000	J	0	ug/kg
1993	115339	2.5 - 5	11-MAY-93	2-Methylnaphthalene	160.000	J	0	ug/kg
1993	115339	2.5 - 5	11-MAY-93	Acenaphthene	290.000	J	0	ug/kg
1993	115339	2.5 - 5	11-MAY-93	Benzo(a)anthracene	570.000	-	0	ug/kg
1993	115339	2.5 - 5	11-MAY-93	Dibenzofuran	240.000	J	0	ug/kg
1993	115339	2.5 - 5	11-MAY-93	Chrysene	530.000	-	0	ug/kg
1993	115339	2.5 - 5	11-MAY-93	bis(2-Ethylhexyl) phthalate	800.000	-	0	ug/kg
1993	115339	2.5 - 5	11-MAY-93	Pyrene	890.000	-	0	ug/kg
1993	115339	2.5 - 5	11-MAY-93	Phenanthrene	1400.000	-	0	ug/kg
1993	115339	2.5 - 5	11-MAY-93	Naphthalene	290.000	J	0	ug/kg

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TABLE C-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
SEMOVOLATILE ORGANICS (Continued)							
1993	115339	2.5 - 5	11-MAY-93	Indeno(1,2,3-cd)pyrene	320.000	J	0 ug/kg
1993	115339	2.5 - 5	11-MAY-93	Fluorene	370.000	J	0 ug/kg
1993	115339	2.5 - 5	11-MAY-93	Fluoranthene	1200.000	-	0 ug/kg
1993	115339	2.5 - 5	11-MAY-93	Carbazole	200.000	J	0 ug/kg
1993	115339	2.5 - 5	11-MAY-93	Benzo(k)fluoranthene	220.000	J	0 ug/kg
1993	115339	2.5 - 5	11-MAY-93	Benzo(g,h,i)perylene	150.000	J	0 ug/kg
1993	115339	2.5 - 5	11-MAY-93	Benzo(b)fluoranthene	630.000	-	0 ug/kg
1993	115339	2.5 - 5	11-MAY-93	Benzo(a)pyrene	510.000	-	0 ug/kg
1993	115339	2.5 - 5	11-MAY-93	Anthracene	440.000	-	0 ug/kg
1993	115340	15 - 17.5	11-MAY-93	bis(2-Ethylhexyl) phthalate	470.000	-	0 ug/kg
PESTICIDES/PCBs							
11036	115381	2.5 - 5	17-MAY-93	4,4'-DDD	4.500	J	0 ug/kg
11036	115381	2.5 - 5	17-MAY-93	Aroclor-1260	26.000	J	0 ug/kg
11038	115376	0 - 2.5	16-MAY-93	Aroclor-1260	170.000	J	0 ug/kg
11041	115389	0 - 2.5	19-MAY-93	4,4'-DDD	4.300	J	0 ug/kg
11041	115389	0 - 2.5	19-MAY-93	Endrin aldehyde	180.000	J	0 ug/kg
11041	115389	0 - 2.5	19-MAY-93	Dieldrin	13.000	J	0 ug/kg
1982	111484	0 - 2.5	06-MAY-93	Aroclor-1254	48.000	J	0 ug/kg
1985	111441	2 - 4	26-APR-93	4,4'-DDD	5.000	J	0 ug/kg
1985	111441	2 - 4	26-APR-93	Aroclor-1260	77.000	J	0 ug/kg
1985	111441	2 - 4	26-APR-93	Endosulfan sulfate	6.200	-	0 ug/kg
1986	111452	2.5 - 5	28-APR-93	Aroclor-1260	70.000	J	0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Endosulfan sulfate	10.000	J	0 ug/kg
1987	115357	5 - 7.5	13-MAY-93	Endrin ketone	7.100	J	0 ug/kg
1990	115329	6 - 9	10-MAY-93	Endosulfan sulfate	9.400	J	0 ug/kg
1990	115329	6 - 9	10-MAY-93	Endrin ketone	5.700	J	0 ug/kg
1991	115319	7.5 - 10	06-MAY-93	Endosulfan II	6.200	J	0 ug/kg

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TABLE C-2D
SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN SURFACE WATER
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
<u>METALS</u>								
ASIT-021	001161	-	21-FEB-89	Aluminum	UNKN	.161	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Barium	UNKN	.063	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Cadmium	UNKN	.006	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Beryllium	UNKN	.002	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Calcium	UNKN	47.000	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Magnesium	UNKN	10.700	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Molybdenum	UNKN	.023	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Potassium	UNKN	2.020	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Vanadium	UNKN	.019	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Sodium	UNKN	4.960	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Zinc	UNKN	.033	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Nickel	UNKN	.016	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Manganese	UNKN	.065	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Chromium	UNKN	.018	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Copper	UNKN	.016	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Cobalt	UNKN	.014	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Iron	UNKN	.087	-	0 mg/L
<u>RADIONUCLIDES</u>								
ASIT-021	001160	-	21-FEB-89	U-234	FLTR	7.300	-	0 pCi/L
ASIT-021	001160	-	21-FEB-89	U-238	FLTR	13.700	-	0 pCi/L
ASIT-021	001160	-	21-FEB-89	U-TOTAL	FLTR	42.000	-	0 ug/L
ASIT-021	001161	-	21-FEB-89	U-234	UNKN	6.100	J	0 pCi/L
ASIT-021	001161	-	21-FEB-89	U-TOTAL	UNKN	26.000	-	0 ug/L
ASIT-021	001161	-	21-FEB-89	U-238	UNKN	9.700	J	0 pCi/L
<u>SEMOVOLATILE ORGANICS</u>								
ASIT-021	001161	-	21-FEB-89	Di-n-butyl phthalate	UNFL	3.000	J	0 ug/L
ASIT-021	001161	-	21-FEB-89	Diethyl phthalate	UNFL	3.000	J	0 ug/L
<u>GENERAL CHEMISTRY</u>								
ASIT-021	001161	-	21-FEB-89	Chloride	UNFL	12.000	-	0 mg/L
ASIT-021	001161	-	21-FEB-89	Nitrate	UNFL	1.800	-	0 mg/L

See footnotes at end of table

TABLE C-2D
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
<u>GENERAL CHEMISTRY (Continued)</u>								
ASIT-021	001161	-	21-FEB-89	Sulfate	UNFL	36.800 J	0	mg/L
ASIT-021	001161	-	21-FEB-89	Total Organic Nitrogen	UNFL	1.030 -	0	mg/L
ASIT-021	001161	-	21-FEB-89	Fluoride	UNFL	.140 J	0	mg/L

^aZero background concentration has been used for surface water. Background data for surface water is not available at this time.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

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TABLE C-2E
SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN SURFACE WATER
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
SWL-SW-01	111289	-	07-APR-93	Aluminum	UNFL	.140	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Barium	UNFL	.039	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Magnesium	UNFL	23.500	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Potassium	UNFL	.865	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Calcium	UNFL	92.500	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Cyanide	UNFL	.002	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Manganese	UNFL	.177	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Silicon	UNFL	1.910	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Sodium	UNFL	11.300	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Barium	FLTR	.041	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Cyanide	UNFL	.002	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Manganese	FLTR	.185	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Potassium	FLTR	.869	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Silicon	FLTR	2.030	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Sodium	FLTR	13.000	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Magnesium	FLTR	25.700	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Calcium	FLTR	105.000	-	0 mg/L
RADIONUCLIDES								
SWL-SW-01	111289	-	07-APR-93	PU-238	UNFL	.196	J	0 pCi/L
SWL-SW-01	111289	-	07-APR-93	U-234	UNFL	17.200	-	0 pCi/L
SWL-SW-01	111289	-	07-APR-93	U-TOTAL	UNFL	46.100	-	0 ug/L
SWL-SW-01	111289	-	07-APR-93	U-238	UNFL	18.700	-	0 pCi/L
SWL-SW-01	111289	-	07-APR-93	U-235/236	UNFL	1.300	-	0 pCi/L
SWL-SW-02	111291	-	06-APR-93	PU-238	UNFL	.035	J	0 pCi/L
SWL-SW-02	111291	-	06-APR-93	U-235/236	UNFL	.846	J	0 pCi/L
SWL-SW-02	111291	-	06-APR-93	U-TOTAL	UNFL	59.300	-	0 ug/L
SWL-SW-02	111291	-	06-APR-93	U-238	UNFL	20.200	-	0 pCi/L
SWL-SW-02	111291	-	06-APR-93	U-234	UNFL	17.100	-	0 pCi/L
SEMOVOLATILE ORGANICS								
SWL-SW-01	111289	-	07-APR-93	bis(2-Ethylhexyl) phthalate	UNFL	1.000	-	0 ug/L

See footnote at end of table

TABLE C-2E
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
GENERAL CHEMISTRY								
SWL-SW-01	111289	-	07-APR-93	Chloride	UNFL	17.100	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Total Organic Carbon	UNFL	2.800	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Total Organic Nitrogen	UNFL	.230	-	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Nitrate	UNFL	2.340	J	0 mg/L
SWL-SW-01	111289	-	07-APR-93	Fluoride	UNFL	.190	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Chloride	UNFL	24.600	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Sulfate	UNFL	61.010	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Total Organic Carbon	UNFL	2.700	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Total Organic Nitrogen	UNFL	.200	-	0 mg/L
SWL-SW-02	111291	-	06-APR-93	Fluoride	UNFL	.220	-	0 mg/L

^aZero background concentration has been used for surface water. Background data for surface water is not available at this time.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

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TABLE C-2F
SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SEDIMENT
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND UNITS
RADIONUCLIDES								
ASIT-021	009100	-	11-JUL-88	U-TOTAL	24.000	J	3.24	mg/kg

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TABLE C-2G
SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SEDIMENT
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
METALS							
SWL-SD-01	111328	-	08-APR-93	Calcium	161000.000	-	5296.781 mg/kg
SWL-SD-01	111328	-	08-APR-93	Magnesium	26000.000	-	1460 mg/kg
SWL-SD-01	111328	-	08-APR-93	Sodium	346.000	-	55.145 mg/kg
SWL-SD-01	111328	-	08-APR-93	Thallium	.760	J	.58 mg/kg
SWL-SD-01	111328	-	08-APR-93	Zinc	72.600	-	58.5 mg/kg
SWL-SD-02	111325	-	06-APR-93	Calcium	105000.000	-	5296.781 mg/kg
SWL-SD-02	111325	-	06-APR-93	Sodium	158.000	-	55.145 mg/kg
SWL-SD-02	111325	-	06-APR-93	Silver	4.200	-	0 mg/kg
SWL-SD-02	111325	-	06-APR-93	Magnesium	22500.000	-	1460 mg/kg
RADIONUCLIDES							
SWL-SD-01	111328	-	08-APR-93	GROSS ALPHA	27.700	-	0 pCi/g
SWL-SD-01	111328	-	08-APR-93	PU-238	.036	J	0 pCi/g
SWL-SD-01	111328	-	08-APR-93	U-234	3.660	-	1.319 pCi/g
SWL-SD-01	111328	-	08-APR-93	U-238	4.560	-	1.27 pCi/g
SWL-SD-01	111328	-	08-APR-93	U-TOTAL	14.700	-	3.24 mg/kg
SWL-SD-01	111328	-	08-APR-93	U-235/236	.250	J	.181 pCi/g
SWL-SD-01	111328	-	08-APR-93	PU-239/240	.039	J	0 pCi/g
SWL-SD-01	111328	-	08-APR-93	SR-90	.990	J	0 pCi/g
SWL-SD-01	111328	-	08-APR-93	NP-237	.620	N	0 pCi/g
SWL-SD-01	111328	-	08-APR-93	GROSS BETA	26.900	-	0 pCi/g
SWL-SD-02	111325	-	06-APR-93	GROSS ALPHA	15.300	-	0 pCi/g
SWL-SD-02	111325	-	06-APR-93	SR-90	.590	-	0 pCi/g
SWL-SD-02	111325	-	06-APR-93	U-238	6.800	-	1.27 pCi/g
SWL-SD-02	111325	-	06-APR-93	U-TOTAL	22.600	-	3.24 mg/kg
SWL-SD-02	111325	-	06-APR-93	U-234	4.180	J	1.319 pCi/g
SWL-SD-02	111325	-	06-APR-93	GROSS BETA	16.300	-	0 pCi/g
VOLATILE ORGANICS							
SWL-SD-02	111325	-	06-APR-93	Acetone	2.000	J	0 ug/kg

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TABLE C-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
SEMIVOLATILE ORGANICS							
SWL-SD-01	111328	-	08-APR-93	Pyrene	58.000	J	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Acenaphthene	98.000	J	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Anthracene	240.000	J	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Benzo(a)anthracene	500.000	-	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Benzo(a)pyrene	550.000	-	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Benzo(b)fluoranthene	730.000	-	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Benzo(g,h,i)perylene	240.000	J	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Benzo(k)fluoranthene	270.000	J	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	bis(2-Ethylhexyl) phthalate	53.000	J	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Pyrene	990.000	-	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Phenanthrene	1000.000	-	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Indeno(1,2,3-cd)pyrene	310.000	J	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Carbazole	120.000	J	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Chrysene	510.000	-	0 ug/kg
SWL-SD-02	111325	-	06-APR-93	Fluoranthene	1400.000	-	0 ug/kg

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TABLE C-2H

**SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 1000 SERIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
1035	003245	-	25-MAY-88	Manganese	FLTR	.379	-	.165 mg/L
1035	003245	-	25-MAY-88	Molybdenum	FLTR	.029	-	.028 mg/L
1035	003560	-	11-AUG-88	Arsenic	*F	.350	-	.122 mg/L
1038	003183	-	11-MAY-88	Cadmium	FLTR	.013	-	.007 mg/L
1038	003183	-	11-MAY-88	Calcium	FLTR	135.000	-	125.574 mg/L
1038	003183	-	11-MAY-88	Magnesium	FLTR	60.900	-	49.627 mg/L
1038	003183	-	11-MAY-88	Manganese	FLTR	.286	-	.165 mg/L
1038	003518	-	22-AUG-88	Calcium	*F	133.000	-	125.574 mg/L
1038	003518	-	22-AUG-88	Manganese	*F	.204	-	.165 mg/L
1038	003518	-	22-AUG-88	Magnesium	*F	60.600	-	49.627 mg/L
1038	003762	-	20-NOV-88	Calcium	FLTR	126.000	-	125.574 mg/L
1038	003762	-	20-NOV-88	Molybdenum	FLTR	.036	-	.028 mg/L
1038	003762	-	20-NOV-88	Manganese	FLTR	.210	-	.165 mg/L
1038	003762	-	20-NOV-88	Magnesium	FLTR	56.000	-	49.627 mg/L
1038	003947	-	05-FEB-89	Cadmium	FLTR	.010	-	.007 mg/L
1038	003947	-	05-FEB-89	Nickel	FLTR	.029	-	.026 mg/L
1038	003947	-	05-FEB-89	Chromium	FLTR	.036	-	.0345 mg/L
1038	003947	-	05-FEB-89	Manganese	FLTR	.217	-	.165 mg/L
1038	003947	-	05-FEB-89	Magnesium	FLTR	66.300	-	49.627 mg/L
1038	003947	-	05-FEB-89	Calcium	FLTR	147.000	-	125.574 mg/L
1038	066431	-	18-JUN-89	Aluminum	UNKN	.168	-	.123 mg/L
1038	066431	-	18-JUN-89	Vanadium	UNKN	.028	-	.0195 mg/L
1038	066431	-	18-JUN-89	Calcium	UNKN	145.000	-	125.574 mg/L
1038	066431	-	18-JUN-89	Magnesium	UNKN	65.400	-	49.627 mg/L
1038	066431	-	18-JUN-89	Chromium	UNKN	.039	-	.0345 mg/L
1038	066495	-	13-AUG-89	Aluminum	UNKN	.149	-	.123 mg/L
1038	066495	-	13-AUG-89	Magnesium	UNKN	66.200	-	49.627 mg/L
1038	066495	-	13-AUG-89	Calcium	UNKN	156.000	-	125.574 mg/L
1038	066495	-	13-AUG-89	Vanadium	UNKN	.026	-	.0195 mg/L
1719	047006	-	09-JUN-92	Magnesium	UNKN	82.400	-	49.627 mg/L
1719	047006	-	09-JUN-92	Molybdenum	UNKN	.038	-	.028 mg/L
1719	047006	-	09-JUN-92	Thallium	UNKN	.337	J	0 mg/L

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See footnotes at end of table

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TABLE C-2H
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND	UNITS
METALS (Continued)									
1719	047006	-	09-JUN-92	Silicon	UNKN	7.550	-	0	mg/L
1719	047006	-	09-JUN-92	Nickel	UNKN	.133	-	.026	mg/L
1719	047006	-	09-JUN-92	Manganese	UNKN	.238	-	.165	mg/L
RADIONUCLIDES									
1035	003245	-	25-MAY-88	NP-237	*U	1.000	-	0	pCi/L
1035	003245	-	25-MAY-88	TH-228	*U	4.000	-	1.04	pCi/L
1035	003245	-	25-MAY-88	TH-230	*U	4.600	-	2	pCi/L
1035	003245	-	25-MAY-88	TH-232	*U	2.600	-	0	pCi/L
1035	003245	-	25-MAY-88	U-TOTAL	*U	17.000	-	4	ug/L
1035	003245	-	25-MAY-88	U-238	*U	3.900	-	1.07	pCi/L
1035	003245	-	25-MAY-88	U-234	*U	4.600	-	1.9	pCi/L
1035	003245	-	25-MAY-88	RA-226	*U	2.000	-	1	pCi/L
1035	003736	-	15-NOV-88	U-238	*U	1.200	J	1.07	pCi/L
1035	066826	-	06-JAN-90	TH-228	UNKN	1.940	-	1.04	pCi/L
1035	066826	-	06-JAN-90	TH-230	UNKN	2.030	J	2	pCi/L
1035	066826	-	06-JAN-90	U-238	UNKN	2.880	-	1.07	pCi/L
1035	066826	-	06-JAN-90	U-TOTAL	UNKN	8.190	J	4	ug/L
1038	003183	-	11-MAY-88	U-238	*U	1.400	-	1.07	pCi/L
1038	003183	-	11-MAY-88	U-TOTAL	*U	5.000	J	4	ug/L
1038	003518	-	22-AUG-88	U-238	*U	1.400	J	1.07	pCi/L
1038	003762	-	20-NOV-88	U-234	*U	2.300	J	1.9	pCi/L
1038	003762	-	20-NOV-88	U-TOTAL	*U	4.500	J	4	ug/L
1038	003762	-	20-NOV-88	U-238	*U	1.200	J	1.07	pCi/L
1038	003947	-	05-FEB-89	U-238	*U	1.500	-	1.07	pCi/L
1038	066431	-	18-JUN-89	U-234	UNKN	3.100	-	1.9	pCi/L
1038	066431	-	18-JUN-89	U-TOTAL	UNKN	5.000	-	4	ug/L
1038	066431	-	18-JUN-89	U-238	UNKN	2.000	-	1.07	pCi/L
1038	066495	-	13-AUG-89	U-238	N/A	1.300	J	1.07	pCi/L
GENERAL CHEMISTRY									
1035	003245	-	25-MAY-88	Phosphorus	UNFL	4.900	-	.223	mg/L
1035	003245	-	25-MAY-88	Total Organic Nitrogen	UNFL	4.600	-	0	mg/L
1035	003560	-	11-AUG-88	Phosphorus	UNFL	3.550	J	.223	mg/L
1035	003560	-	11-AUG-88	Total Organic Nitrogen	UNFL	.100	J	0	mg/L
1035	003736	-	15-NOV-88	Total Kjeldahl Nitrogen	UNFL	.420	J	0	mg/L
1035	003736	-	15-NOV-88	Total Organic Nitrogen	UNFL	.420	J	0	mg/L
1035	003931	-	05-FEB-89	Nitrate	UNFL	.580	J	.522	mg/L
1035	003931	-	05-FEB-89	Total Organic Nitrogen	N/A	.160	J	0	mg/L

See footnotes at end of table

TABLE C-2H
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL	QUAL	BACKGROUND	UNITS
GENERAL CHEMISTRY (Continued)										
1035	003931	-	05-FEB-89	Total Kjeldahl Nitrogen	UNFL	.160	J		0	mg/L
1038	003183	-	11-MAY-88	Sulfate	UNFL	200.000	J	141.894	mg/L	
1038	003518	-	22-AUG-88	Phosphorus	UNFL	.625	J	.223	mg/L	
1038	003518	-	22-AUG-88	Total Organic Nitrogen	UNFL	.100	J	0	mg/L	
1038	003762	-	20-NOV-88	Phosphorus	UNFL	2.760	-	.223	mg/L	
1038	003947	-	05-FEB-89	Phosphorus	UNFL	.270	J	.223	mg/L	
1038	003947	-	05-FEB-89	Total Kjeldahl Nitrogen	UNFL	.223	J	0	mg/L	
1038	003947	-	05-FEB-89	Sulfate	UNFL	183.000	-	141.894	mg/L	
1038	003947	-	05-FEB-89	Total Organic Nitrogen	UNFL	.223	J	0	mg/L	
1038	066431	-	18-JUN-89	Sulfate	UNFL	158.000	-	141.894	mg/L	
1038	066431	-	18-JUN-89	Total Organic Halides	UNFL	.011	J	0	mg/L	
1038	066495	-	13-AUG-89	Sulfate	UNFL	155.000	J	141.894	mg/L	
1038	066495	-	13-AUG-89	Total Organic Halides	UNFL	.011	-	0	mg/L	
1719	047006	-	09-JUN-92	Sulfate	UNFL	296.200	J	141.894	mg/L	
1719	047006	-	09-JUN-92	Total Organic Carbon	UNFL	7.340	-	0	mg/L	
1719	047006	-	09-JUN-92	Total Organic Halides	UNFL	.061	-	0	mg/L	

^aZero background concentration has been used for surface water. Background data for surface water is not available at this time.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

*F = Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

N/A = Not applicable

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TABLE C-2I
SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 2000 SERIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

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SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>METALS</u>									
2027	003168	-	09-MAY-88	Calcium	*F		274.000	-	135.163 mg/L
2027	003168	-	09-MAY-88	Iron	*F		8.060	-	.4 mg/L
2027	003168	-	09-MAY-88	Potassium	*F		3.690	-	3.087 mg/L
2027	003168	-	09-MAY-88	Zinc	*F		.228	-	.105 mg/L
2027	003168	-	09-MAY-88	Magnesium	*F		49.800	-	38.07 mg/L
2027	003453	-	10-AUG-88	Calcium	*F		210.000	-	135.163 mg/L
2027	003453	-	10-AUG-88	Magnesium	*F		44.000	-	38.07 mg/L
2027	003453	-	10-AUG-88	Iron	*F		6.100	-	.4 mg/L
2027	003454	-	10-AUG-88	Calcium	*F	DUP	210.000	-	135.163 mg/L
2027	003454	-	10-AUG-88	Magnesium	*F	DUP	43.000	-	38.07 mg/L
2027	003454	-	10-AUG-88	Iron	*F	DUP	6.000	-	.4 mg/L
2027	003941	-	08-MAR-89	Calcium	FLTR		210.000	J	135.163 mg/L
2027	003941	-	08-MAR-89	Iron	FLTR		4.700	J	.4 mg/L
2027	003941	-	08-MAR-89	Potassium	FLTR		6.400	J	3.087 mg/L
2027	003941	-	08-MAR-89	Magnesium	FLTR		44.000	J	38.07 mg/L
2027	066447	-	27-JUN-89	Aluminum	UNKN		.207	J	.184 mg/L
2027	066447	-	27-JUN-89	Calcium	UNKN		333.000	J	135.163 mg/L
2027	066447	-	27-JUN-89	Chromium	UNKN		.053	J	.042 mg/L
2027	066447	-	27-JUN-89	Vanadium	UNKN		.044	J	.027 mg/L
2027	066447	-	27-JUN-89	Magnesium	UNKN		68.200	J	38.07 mg/L
2027	066447	-	27-JUN-89	Iron	UNKN		5.804	J	.4 mg/L
2027	066599	-	10-SEP-89	Aluminum	UNKN		.275	-	.184 mg/L
2027	066599	-	10-SEP-89	Calcium	UNKN		449.000	-	135.163 mg/L
2027	066599	-	10-SEP-89	Magnesium	UNKN		72.200	-	38.07 mg/L
2027	066599	-	10-SEP-89	Nickel	UNKN		.037	J	.026 mg/L
2027	066599	-	10-SEP-89	Vanadium	UNKN		.044	J	.027 mg/L
2027	066599	-	10-SEP-89	Potassium	UNKN		4.200	J	3.087 mg/L
2027	066599	-	10-SEP-89	Manganese	UNKN		1.940	-	.8 mg/L
2027	066599	-	10-SEP-89	Cadmium	UNKN		.010	-	.006 mg/L
2027	066599	-	10-SEP-89	Cobalt	UNKN		.013	J	0 mg/L
2027	066599	-	10-SEP-89	Aluminum	UNKN		.275	-	.184 mg/L

See footnotes at end of table

TABLE C-2I
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	RESULTS	VAL QUAL	BACKGROUND UNITS
METALS (Continued)									
2027	066600	-	10-SEP-89	Aluminum	UNKN	DUP	.287 -	.184	mg/L
2027	066600	-	10-SEP-89	Cadmium	UNKN	DUP	.019 -	.006	mg/L
2027	066600	-	10-SEP-89	Zinc	UNKN	DUP	.108 J	.105	mg/L
2027	066600	-	10-SEP-89	Vanadium	UNKN	DUP	.048 -	.027	mg/L
2027	066600	-	10-SEP-89	Potassium	UNKN	DUP	5.530 -	3.087	mg/L
2027	066600	-	10-SEP-89	Nickel	UNKN	DUP	.037 -	.026	mg/L
2027	066600	-	10-SEP-89	Manganese	UNKN	DUP	1.580 -	.8	mg/L
2027	066600	-	10-SEP-89	Magnesium	UNKN	DUP	81.900 -	38.07	mg/L
2027	066600	-	10-SEP-89	Iron	UNKN	DUP	9.610 J	4	mg/L
2027	066600	-	10-SEP-89	Cobalt	UNKN	DUP	.014 -	0	mg/L
2027	066600	-	10-SEP-89	Calcium	UNKN	DUP	519.000 -	135.163	mg/L
2037	003917	-	22-FEB-89	Calcium	FLTR		140.000 J	135.163	mg/L
2037	066461	-	28-JUN-89	Aluminum	UNKN		.187 -	.184	mg/L
2037	066461	-	28-JUN-89	Calcium	UNKN		145.000 -	135.163	mg/L
2037	066461	-	28-JUN-89	Zinc	UNKN		.185 -	.105	mg/L
2037	066570	-	25-AUG-89	Calcium	UNKN		228.000 -	135.163	mg/L
2037	066570	-	25-AUG-89	Iron	UNKN		5.540 -	4	mg/L
2037	066570	-	25-AUG-89	Magnesium	UNKN		42.200 -	38.07	mg/L
2052	003476	-	16-DEC-88	Calcium	FLTR	DUP	147.000 -	135.163	mg/L
2052	003476	-	16-DEC-88	Iron	FLTR	DUP	4.190 J	4	mg/L
2052	003791	-	16-DEC-88	Calcium	FLTR		146.000 -	135.163	mg/L
2052	003791	-	16-DEC-88	Iron	FLTR		4.210 J	4	mg/L
2052	003892	-	08-FEB-89	Cadmium	FLTR		.007 J	.006	mg/L
2052	003892	-	08-FEB-89	Calcium	FLTR		142.000 J	135.163	mg/L
RADIONUCLIDES									
2027	003168	-	09-MAY-88	RA-226	*U		1.600 -	1.2	pCi/L
2027	003168	-	09-MAY-88	U-238	*U		2.000 -	.9	pCi/L
2027	003168	-	09-MAY-88	U-TOTAL	*U		6.000 -	2.92	ug/L
2027	003453	-	10-AUG-88	U-234	*U		2.500 J	1.9	pCi/L
2027	003453	-	10-AUG-88	U-TOTAL	*U		6.000 -	2.92	ug/L
2027	003453	-	10-AUG-88	U-238	*U		2.300 J	.9	pCi/L
2027	003454	-	10-AUG-88	U-234	*U	DUP	2.200 J	1.9	pCi/L
2027	003454	-	10-AUG-88	U-TOTAL	*U	DUP	6.000 -	2.92	ug/L
2027	003454	-	10-AUG-88	U-238	*U	DUP	3.100 J	.9	pCi/L
2027	003941	-	08-MAR-89	U-234	*U		3.300 J	1.9	pCi/L
2027	003941	-	08-MAR-89	U-238	*U		2.400 J	.9	pCi/L
2027	003941	-	08-MAR-89	U-TOTAL	*U		7.000 -	2.92	ug/L
2027	066447	-	27-JUN-89	U-234	UNKN		18.700 -	1.9	pCi/L
2027	066447	-	27-JUN-89	U-238	UNKN		15.400 -	.9	pCi/L

See footnotes at end of table

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TABLE C-2I
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)										
2027	066447	-	27-JUN-89	U-TOTAL	UNKN		46.000	-	2.92	ug/L
2027	066580	-	10-SEP-89	U-234	UNKN		2.400	-	1.9	pCi/L
2027	066580	-	10-SEP-89	U-238	UNKN		4.700	-	.9	pCi/L
2027	066580	-	10-SEP-89	U-TOTAL	UNKN		20.000	-	2.92	ug/L
2027	066581	-	10-SEP-89	U-234	UNKN	DUP	7.900	-	1.9	pCi/L
2027	066581	-	10-SEP-89	U-TOTAL	UNKN	DUP	20.000	-	2.92	ug/L
2027	066581	-	10-SEP-89	U-238	UNKN	DUP	6.300	-	.9	pCi/L
2027	066708	-	16-NOV-89	U-234	UNKN		6.260	J	1.9	pCi/L
2027	066708	-	16-NOV-89	U-TOTAL	UNKN		13.000	-	2.92	ug/L
2027	066708	-	16-NOV-89	U-238	UNKN		5.220	-	.9	pCi/L
2027	066742	-	16-NOV-89	U-234	UNKN	DUP	5.960	J	1.9	pCi/L
2027	066742	-	16-NOV-89	U-TOTAL	UNKN	DUP	12.000	-	2.92	ug/L
2027	066742	-	16-NOV-89	U-238	N/A	DUP	5.160	-	.9	pCi/L
2037	003248	-	01-JUN-88	U-238	*U		2.000	-	.9	pCi/L
2037	003248	-	01-JUN-88	U-TOTAL	*U		4.000	J	2.92	ug/L
2037	003249	-	01-JUN-88	TH-230	*U	DUP	2.800	-	1.79	pCi/L
2037	003249	-	01-JUN-88	U-238	*U	DUP	2.200	-	.9	pCi/L
2037	003249	-	01-JUN-88	U-TOTAL	*U	DUP	4.000	J	2.92	ug/L
2037	003917	-	22-FEB-89	U-TOTAL	*U		3.000	J	2.92	ug/L
2037	066710	-	19-NOV-89	U-234	UNKN		2.000	-	1.9	pCi/L
2037	066710	-	19-NOV-89	U-TOTAL	UNKN		5.000	J	2.92	ug/L
2037	066710	-	19-NOV-89	U-238	UNKN		1.520	-	.9	pCi/L
2052	066847	-	04-JAN-90	U-238	UNKN		3.110	-	.9	pCi/L
2052	066847	-	04-JAN-90	U-TOTAL	UNKN		10.100	J	2.92	ug/L
VOLATILE ORGANICS										
2027	066599	-	10-SEP-89	Carbon disulfide	UNFL		10.000	-	0	ug/L
2027	066600	-	10-SEP-89	Carbon disulfide	UNFL	DUP	1.000	J	0	ug/L
2037	066570	-	25-AUG-89	Carbon disulfide	UNFL		11.000	-	0	ug/L
2052	003587	-	13-SEP-88	Acetone	UNFL		4.000	J	0	ug/L
SEMITROPOLE ORGANICS										
2027	066599	-	10-SEP-89	N-Nitrosodiphenylamine	UNFL		3.000	J	0	ug/L
2027	066599	-	10-SEP-89	bis(2-Ethylhexyl) phthalate	UNFL		3.000	J	0	ug/L
2037	003248	-	01-JUN-88	bis(2-Ethylhexyl) phthalate	UNFL		7.000	J	0	ug/L
2037	066570	-	25-AUG-89	bis(2-Chloroisopropyl) ether	UNFL		10.000	L	0	ug/L

See footnotes at end of table

TABLE C-2I
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>DIOXIN/FURAN</u>										
2037	066570	-	25-AUG-89	Hexachlorodibenzofuran	UNFL		.00038 -		0 ug/L	
2037	066570	-	25-AUG-89	Tetrachlorodibenzofuran	UNFL		.00022 -		0 ug/L	
2037	066570	-	25-AUG-89	Pentachlorodibenzofuran	UNFL		.00031 -		0 ug/L	
<u>GENERAL CHEMISTRY</u>										
2027	003168	-	09-MAY-88	Sulfate	UNFL		645.000 -		359.847 mg/L	
2027	003453	-	10-AUG-88	Fluoride	UNFL		1.800 -		.938 mg/L	
2027	003454	-	10-AUG-88	Fluoride	UNFL	DUP	1.800 -		.938 mg/L	
2027	003731	-	01-DEC-88	Phosphorus	UNFL		26.400 -		.693 mg/L	
2027	003731	-	01-DEC-88	Total Kjeldahl Nitrogen	UNFL		5.000 -		0 mg/L	
2027	003731	-	01-DEC-88	Total Organic Nitrogen	UNFL		4.360 -		.652 mg/L	
2027	003941	-	08-MAR-89	Total Kjeldahl Nitrogen	UNFL		1.600 J		0 mg/L	
2027	003941	-	08-MAR-89	Total Organic Nitrogen	UNFL		1.000 J		.652 mg/L	
2027	066447	-	27-JUN-89	Sulfate	UNFL		569.000 J		359.847 mg/L	
2027	066580	-	10-SEP-89	Sulfate	UNFL		726.000 J		359.847 mg/L	
2027	066580	-	10-SEP-89	Total Organic Halides	UNFL		.028 -		.021 mg/L	
2027	066581	-	10-SEP-89	Sulfate	UNFL	DUP	1320.000 J		359.847 mg/L	
2037	003249	-	01-JUN-88	Total Kjeldahl Nitrogen	UNFL	DUP	1.000 J		0 mg/L	
2037	003249	-	01-JUN-88	Total Organic Nitrogen	UNFL	DUP	1.000 J		.652 mg/L	
2037	003718	-	18-NOV-88	Total Kjeldahl Nitrogen	UNFL		.390 -		0 mg/L	
2037	003917	-	22-FEB-89	Total Kjeldahl Nitrogen	UNFL		.700 J		0 mg/L	
2052	003476	-	16-DEC-88	Phosphorus	UNFL	DUP	1.890 -		.693 mg/L	
2052	003476	-	16-DEC-88	Total Organic Nitrogen	UNFL	DUP	1.410 -		.652 mg/L	
2052	003476	-	16-DEC-88	Total Kjeldahl Nitrogen	UNFL	DUP	1.940 J		0 mg/L	
2052	003791	-	16-DEC-88	Phosphorus	UNFL		6.990 -		.693 mg/L	
2052	003791	-	16-DEC-88	Total Organic Nitrogen	UNFL		2.950 -		.652 mg/L	
2052	003791	-	16-DEC-88	Total Kjeldahl Nitrogen	UNFL		3.630 J		0 mg/L	
2052	003892	-	08-FEB-89	Total Kjeldahl Nitrogen	UNFL		.651 J		0 mg/L	

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aZero background concentration has been used for surface water. Background data for surface water is not available at this time.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

DUP = Duplicate Sample

*F = Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

N/A = Not applicable

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TABLE C-2J
SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 3000 SERIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
3037	003152	-	05-MAY-88	Calcium	FLTR	254.000	-	135.163 mg/L
3037	003152	-	05-MAY-88	Magnesium	FLTR	61.300	-	38.07 mg/L
3037	003152	-	05-MAY-88	Nickel	FLTR	.040	-	.026 mg/L
3037	003152	-	05-MAY-88	Potassium	FLTR	15.900	-	3.087 mg/L
3037	003152	-	05-MAY-88	Sodium	FLTR	62.700	-	51.918 mg/L
3037	003717	-	18-NOV-88	Calcium	FLTR	291.000	-	135.163 mg/L
3037	003717	-	18-NOV-88	Potassium	FLTR	14.500	-	3.087 mg/L
3037	003717	-	18-NOV-88	Iron	FLTR	16.900	-	4 mg/L
3037	003717	-	18-NOV-88	Magnesium	FLTR	67.200	-	38.07 mg/L
3037	003916	-	22-FEB-89	Cadmium	FLTR	.007 J	-	.006 mg/L
3037	003916	-	22-FEB-89	Calcium	FLTR	280.000 J	-	135.163 mg/L
3037	003916	-	22-FEB-89	Chromium	FLTR	.050 J	-	.042 mg/L
3037	003916	-	22-FEB-89	Magnesium	FLTR	61.000 J	-	38.07 mg/L
3037	003916	-	22-FEB-89	Sodium	FLTR	55.000 J	-	51.918 mg/L
3037	003916	-	22-FEB-89	Potassium	FLTR	13.000 J	-	3.087 mg/L
3037	003916	-	22-FEB-89	Iron	FLTR	14.000 J	-	4 mg/L
3037	066462	-	28-JUN-89	Aluminum	UNKN	.201	-	.184 mg/L
3037	066462	-	28-JUN-89	Zinc	UNKN	.267	-	.105 mg/L
3037	066462	-	28-JUN-89	Vanadium	UNKN	.038	-	.027 mg/L
3037	066462	-	28-JUN-89	Calcium	UNKN	277.000	-	135.163 mg/L
3037	066462	-	28-JUN-89	Chromium	UNKN	.057	-	.042 mg/L
3037	066462	-	28-JUN-89	Iron	UNKN	13.090	-	4 mg/L
3037	066462	-	28-JUN-89	Nickel	UNKN	.028	-	.026 mg/L
3037	066462	-	28-JUN-89	Magnesium	UNKN	62.900	-	38.07 mg/L
3037	066571	-	25-AUG-89	Aluminum	UNKN	.224	-	.184 mg/L
3037	066571	-	25-AUG-89	Calcium	UNKN	305.000	-	135.163 mg/L
3037	066571	-	25-AUG-89	Iron	UNKN	14.600	-	4 mg/L
3037	066571	-	25-AUG-89	Magnesium	UNKN	65.700	-	38.07 mg/L
3037	066571	-	25-AUG-89	Sodium	UNKN	57.100	-	51.918 mg/L
3037	066571	-	25-AUG-89	Potassium	UNKN	13.000	-	3.087 mg/L

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See footnotes at end of table

TABLE C-2J
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND	UNITS
RADIOMUCLIDES									
3037	003152	-	05-MAY-88	U-234	*U	3.700	-	1.9	pCi/L
3037	003152	-	05-MAY-88	U-238	*U	13.000	-	.9	pCi/L
3037	003447	-	08-AUG-88	U-234	*F	2.100	-	1.9	pCi/L
3037	003447	-	08-AUG-88	U-238	*F	5.700	-	.9	pCi/L
3037	003447	-	08-AUG-88	U-TOTAL	*F	15.000	-	2.92	ug/L
3037	003916	-	22-FEB-89	U-238	*U	1.800	-	.9	pCi/L
3037	003916	-	22-FEB-89	U-TOTAL	*U	6.000	-	2.92	ug/L
VOLATILE ORGANICS									
3037	066928	- 77	27-AUG-90	2-Hexanone	UNFL	2.000	J	0	ug/L
3037	066928	- 77	27-AUG-90	Acetone	UNFL	29.000	-	0	ug/L
SEMOVOLATILE ORGANICS									
3037	066571	-	25-AUG-89	Butyl benzyl phthalate	UNFL	3.000	J	0	ug/L
3037	066571	-	25-AUG-89	Diethyl phthalate	UNFL	2.000	J	0	ug/L
3037	066571	-	25-AUG-89	Phenol	UNFL	17.000	-	0	ug/L
3037	066571	-	25-AUG-89	bis(2-Chloroisopropyl) ether	UNFL	10.000	L	0	ug/L
3037	066928	- 77	27-AUG-90	bis(2-Ethylhexyl) phthalate	UNFL	4.000	J	0	ug/L
3037	066571	-	25-AUG-89	Pentachlorodibenzofuran	UNFL	.000	-	0	ug/L
3037	066571	-	25-AUG-89	Tetrachlorodibenzo-p-dioxin	UNFL	.004	-	0	ug/L
3037	066571	-	25-AUG-89	Tetrachlorodibenzofuran	UNFL	.001	-	0	ug/L
GENERAL CHEMISTRY									
3037	003152	-	05-MAY-88	Sulfate	UNFL	475.000	-	359.847	mg/L
3037	003152	-	05-MAY-88	Total Kjeldahl Nitrogen	UNFL	3.390	J	0	mg/L
3037	003152	-	05-MAY-88	Total Organic Nitrogen	UNFL	1.570	J	.652	mg/L
3037	003447	-	08-AUG-88	Ammonia	UNFL	13.000	-	3.24	mg/L
3037	003717	-	18-NOV-88	Ammonia	UNFL	18.800	-	3.24	mg/L
3037	003717	-	18-NOV-88	Sulfate	UNFL	394.000	J	359.847	mg/L
3037	003717	-	18-NOV-88	Total Organic Nitrogen	UNFL	4.000	-	.652	mg/L
3037	003717	-	18-NOV-88	Total Kjeldahl Nitrogen	UNFL	22.800	-	0	mg/L
3037	003717	-	18-NOV-88	Chloride	UNFL	212.000	-	145.065	mg/L
3037	003916	-	22-FEB-89	Ammonia	UNFL	16.000	J	3.24	mg/L
3037	003916	-	22-FEB-89	Chloride	UNFL	200.000	J	145.065	mg/L
3037	003916	-	22-FEB-89	Sulfate	UNFL	390.000	J	359.847	mg/L
3037	003916	-	22-FEB-89	Total Kjeldahl Nitrogen	UNFL	27.000	J	0	mg/L
3037	003916	-	22-FEB-89	Total Organic Halides	UNFL	.027	-	.021	mg/L

See footnotes at end of table

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TABLE C-2J
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
GENERAL CHEMISTRY (Continued)								
3037	003916	-	22-FEB-89	Total Organic Nitrogen	UNFL	12.000	J	.652 mg/L
3037	066462	-	28-JUN-89	Chloride	UNFL	206.000	-	145.065 mg/L
3037	066462	-	28-JUN-89	Sulfate	UNFL	467.000	-	359.847 mg/L
3037	066541	-	25-AUG-89	Chloride	UNFL	250.000	J	145.065 mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

*F = Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

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TABLE C-2K

SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 1000 SERIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS								
1035	111552	-	05-MAY-93	Aluminum	UNFL	.224	-	.123 mg/L
1035	111552	-	05-MAY-93	Silicon	UNFL	6.360	-	0 mg/L
1035	111553	-	05-MAY-93	Cobalt	FLTR	.004	-	0 mg/L
1035	111553	-	05-MAY-93	Silicon	FLTR	6.600	-	0 mg/L
1038	111548	-	05-MAY-93	Aluminum	UNFL	.267	-	.123 mg/L
1038	111548	-	05-MAY-93	Magnesium	UNFL	62.800	-	49.627 mg/L
1038	111548	-	05-MAY-93	Silicon	UNFL	9.200	-	0 mg/L
1038	111548	-	05-MAY-93	Calcium	UNFL	145.000	-	125.574 mg/L
1038	111549	-	05-MAY-93	Calcium	FLTR	141.000	-	125.574 mg/L
1038	111549	-	05-MAY-93	Silicon	FLTR	9.400	-	0 mg/L
1038	111549	-	05-MAY-93	Magnesium	FLTR	61.400	-	49.627 mg/L
1950	115480	-	08-JUN-93	Magnesium	UNFL	80.700	-	49.627 mg/L
1950	115480	-	08-JUN-93	Silicon	UNFL	7.670	-	0 mg/L
1950	115480	-	08-JUN-93	Manganese	UNFL	.203	-	.165 mg/L
1950	115481	-	08-JUN-93	Aluminum	UNFL	4.320	-	.123 mg/L
1950	115481	-	08-JUN-93	Cobalt	UNFL	.009	-	0 mg/L
1950	115481	-	08-JUN-93	Silicon	UNFL	15.500	-	0 mg/L
1950	115481	-	08-JUN-93	Manganese	UNFL	.286	-	.165 mg/L
1950	115481	-	08-JUN-93	Magnesium	UNFL	88.800	-	49.627 mg/L
1952	115468	-	15-MAY-93	Aluminum	UNFL	.216	-	.123 mg/L
1952	115468	-	15-MAY-93	Calcium	UNFL	201.000	-	125.574 mg/L
1952	115468	-	15-MAY-93	Silicon	UNFL	7.930	-	0 mg/L
1952	115468	-	15-MAY-93	Nickel	UNFL	.065	-	.026 mg/L
1952	115468	-	15-MAY-93	Manganese	UNFL	.529	-	.165 mg/L
1952	115468	-	15-MAY-93	Magnesium	UNFL	62.700	-	49.627 mg/L
1952	115471	-	15-MAY-93	Aluminum	UNFL	53.200	-	.123 mg/L
1952	115471	-	15-MAY-93	Barium	UNFL	.466	-	.459 mg/L
1952	115471	-	15-MAY-93	Beryllium	UNFL	.002	-	.0018 mg/L
1952	115471	-	15-MAY-93	Cobalt	UNFL	.026	-	0 mg/L
1952	115471	-	15-MAY-93	Iron	UNFL	75.000	-	10.965 mg/L
1952	115471	-	15-MAY-93	Manganese	UNFL	1.900	-	.165 mg/L

See footnotes at end of table

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TABLE C-2K
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>METALS (Continued)</u>								
1952	115471	-	15-MAY-93	Zinc	UNFL	.212	-	.0317 mg/L
1952	115471	-	15-MAY-93	Vanadium	UNFL	.118	-	.0195 mg/L
1952	115471	-	15-MAY-93	Silicon	UNFL	72.100	-	0 mg/L
1952	115471	-	15-MAY-93	Nickel	UNFL	.118	-	.026 mg/L
1952	115471	-	15-MAY-93	Magnesium	UNFL	130.000	-	49.627 mg/L
1952	115471	-	15-MAY-93	Copper	UNFL	.071	-	.03 mg/L
1952	115471	-	15-MAY-93	Chromium	UNFL	.058	-	.0345 mg/L
1952	115471	-	15-MAY-93	Calcium	UNFL	398.000	-	125.574 mg/L
<u>RADIONUCLIDES</u>								
1035	111552	-	05-MAY-93	NP-237	UNFL	.300	N	0 pCi/L
1035	111552	-	05-MAY-93	PU-238	UNFL	.670	J	0 pCi/L
1035	111553	-	05-MAY-93	PU-239/240	FLTR	.380	-	0 pCi/L
1038	111548	-	05-MAY-93	U-234	UNFL	2.340	-	1.9 pCi/L
1038	111548	-	05-MAY-93	U-238	UNFL	1.560	-	1.07 pCi/L
1038	111548	-	05-MAY-93	U-TOTAL	UNFL	4.110	-	4 ug/L
1038	111549	-	05-MAY-93	NP-237	FLTR	.480	N	0 pCi/L
1038	111549	-	05-MAY-93	U-TOTAL	FLTR	4.950	-	4 ug/L
1038	111549	-	05-MAY-93	U-238	FLTR	1.670	-	1.07 pCi/L
1038	111549	-	05-MAY-93	U-235/236	FLTR	.050	J	0 pCi/L
1038	111549	-	05-MAY-93	U-234	FLTR	2.300	-	1.9 pCi/L
1038	111549	-	05-MAY-93	PU-239/240	FLTR	.160	-	0 pCi/L
1950	115480	-	08-JUN-93	U-234	UNFL	3.500	-	1.9 pCi/L
1950	115480	-	08-JUN-93	U-TOTAL	UNFL	7.670	-	4 ug/L
1950	115480	-	08-JUN-93	U-238	UNFL	2.820	-	1.07 pCi/L
1950	115480	-	08-JUN-93	U-235/236	UNFL	.208	-	0 pCi/L
1950	115481	-	08-JUN-93	NP-237	UNFL	1.940	N	0 pCi/L
1950	115481	-	08-JUN-93	TH-TOTAL	UNFL	5.960	-	3 ug/L
1950	115481	-	08-JUN-93	TH-232	UNFL	.654	J	0 pCi/L
1950	115481	-	08-JUN-93	PU-238	UNFL	.144	J	0 pCi/L
1950	115481	-	08-JUN-93	U-TOTAL	UNFL	11.000	-	4 ug/L
1950	115481	-	08-JUN-93	U-238	UNFL	4.830	-	1.07 pCi/L
1950	115481	-	08-JUN-93	U-234	UNFL	5.060	-	1.9 pCi/L
1952	115468	-	15-MAY-93	SR-90	UNFL	.900	J	0 pCi/L
1952	115468	-	15-MAY-93	U-235/236	UNFL	.412	J	0 pCi/L
1952	115468	-	15-MAY-93	U-234	UNFL	4.870	-	1.9 pCi/L
1952	115468	-	15-MAY-93	U-TOTAL	UNFL	15.800	-	4 ug/L
1952	115468	-	15-MAY-93	U-238	UNFL	6.770	-	1.07 pCi/L
1952	115471	-	15-MAY-93	PU-238	UNFL	.169	J	0 pCi/L

See footnotes at end of table

TABLE C-2K
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND	UNITS
<u>RADIOMUCLIDES (Continued)</u>									
1952	115471	-	15-MAY-93	SR-90	UNFL	1.350	J	0	pCi/L
1952	115471	-	15-MAY-93	RA-226	UNFL	5.110	-	1	pCi/L
1952	115471	-	15-MAY-93	TH-230	UNFL	13.800	-	2	pCi/L
1952	115471	-	15-MAY-93	TH-228	UNFL	14.000	-	1.04	pCi/L
1952	115471	-	15-MAY-93	U-TOTAL	UNFL	55.800	-	4	ug/L
1952	115471	-	15-MAY-93	U-238	UNFL	15.200	-	1.07	pCi/L
1952	115471	-	15-MAY-93	U-235/236	UNFL	.432	J	0	pCi/L
1952	115471	-	15-MAY-93	U-234	UNFL	12.000	-	1.9	pCi/L
1952	115471	-	15-MAY-93	TH-TOTAL	UNFL	104.000	-	3	ug/L
1952	115471	-	15-MAY-93	TH-232	UNFL	11.500	-	0	pCi/L
<u>VOLATILE ORGANICS</u>									
1952	115468	-	15-MAY-93	1,2-Dichloroethene	UNFL	16.000	-	0	ug/L
<u>GENERAL CHEMISTRY</u>									
1035	111552	-	05-MAY-93	Nitrate	UNFL	.930	J	.522	mg/L
1035	111552	-	05-MAY-93	Total Organic Nitrogen	UNFL	.210	-	0	mg/L
1035	111552	-	05-MAY-93	Total Kjeldahl Nitrogen	UNFL	.210	-	0	mg/L
1038	111548	-	05-MAY-93	Sulfate	UNFL	154.400	-	141.894	mg/L
1950	115480	-	08-JUN-93	Nitrate	UNFL	.800	J	.522	mg/L
1950	115480	-	08-JUN-93	Total Organic Halides	UNFL	.015	-	0	mg/L
1950	115480	-	08-JUN-93	Total Organic Nitrogen	UNFL	.260	-	0	mg/L
1950	115480	-	08-JUN-93	Sulfate	UNFL	190.700	-	141.894	mg/L
1950	115480	-	08-JUN-93	Total Kjeldahl Nitrogen	UNFL	.380	-	0	mg/L
1950	115480	-	08-JUN-93	Total Organic Carbon	UNFL	2.240	-	0	mg/L
1952	115468	-	15-MAY-93	Phosphorus	UNFL	.910	-	.223	mg/L
1952	115468	-	15-MAY-93	Total Organic Nitrogen	UNFL	.670	-	0	mg/L
1952	115468	-	15-MAY-93	Total Kjeldahl Nitrogen	UNFL	.670	-	0	mg/L
1952	115468	-	15-MAY-93	Total Organic Halides	UNFL	.094	J	0	mg/L
1952	115468	-	15-MAY-93	Total Organic Carbon	UNFL	2.800	-	0	mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

TABLE C-2L
SOLID WASTE LANDFILL
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 2000 SERIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS									
2027	111543	-	23-APR-93	Aluminum	FLTR		.303 -	.184	mg/L
2027	111543	-	23-APR-93	Calcium	FLTR		258.000 J	135.163	mg/L
2027	111543	-	23-APR-93	Magnesium	FLTR		61.300 J	38.07	mg/L
2027	111543	-	23-APR-93	Iron	FLTR		5.070 -	4	mg/L
2027	111543	-	23-APR-93	Potassium	FLTR		6.950 -	3.087	mg/L
2037	111540	-	22-APR-93	Calcium	FLTR		141.000 J	135.163	mg/L
2052	111546	-	29-APR-93	Calcium	FLTR		153.000 -	135.163	mg/L
2947	111572	-	19-MAY-93	Calcium	UNFL	DUP	160.000 -	135.163	mg/L
2947	111572	-	19-MAY-93	Iron	UNFL	DUP	4.730 -	4	mg/L
2947	111572	-	19-MAY-93	Potassium	UNFL	DUP	3.210 -	3.087	mg/L
2947	111574	-	19-MAY-93	Calcium	UNFL	DUP	158.000 -	135.163	mg/L
2947	111574	-	19-MAY-93	Iron	UNFL	DUP	4.740 -	4	mg/L
2947	115473	-	19-MAY-93	Calcium	UNFL		159.000 -	135.163	mg/L
2947	115473	-	19-MAY-93	Iron	UNFL		4.660 -	4	mg/L
2947	115473	-	19-MAY-93	Potassium	UNFL		3.190 -	3.087	mg/L
2947	115475	-	19-MAY-93	Calcium	UNFL		163.000 -	135.163	mg/L
2947	115475	-	19-MAY-93	Iron	UNFL		4.970 -	4	mg/L
2947	115475	-	19-MAY-93	Potassium	UNFL		3.260 -	3.087	mg/L
2951	115478	-	25-MAY-93	Aluminum	UNFL		1.230 -	.184	mg/L
2951	115478	-	25-MAY-93	Calcium	UNFL		142.000 -	135.163	mg/L
2951	115478	-	25-MAY-93	Iron	UNFL		7.230 -	4	mg/L
2953	115488	-	23-JUN-93	Aluminum	UNFL		.672 -	.184	mg/L
2953	115488	-	23-JUN-93	Calcium	FLTR		167.000 -	135.163	mg/L
2953	115488	-	23-JUN-93	Calcium	UNFL		161.000 -	135.163	mg/L
2953	115488	-	23-JUN-93	Iron	UNFL		6.710 -	4	mg/L
2953	115488	-	23-JUN-93	Iron	FLTR		5.640 -	4	mg/L
2953	115488	-	23-JUN-93	Aluminum	FLTR		.243 -	.184	mg/L

See footnotes at end of table

TABLE C-2L
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND	UNITS
RADIOMUCLIDES										
2027	111543	-	23-APR-93	U-234	UNFL		4.740	-	1.9	pCi/L
2027	111543	-	23-APR-93	U-238	UNFL		3.690	-	.9	pCi/L
2027	111543	-	23-APR-93	U-TOTAL	UNFL		9.150	-	2.92	ug/L
2027	111543	-	23-APR-93	U-235/236	UNFL		.277	J	0	pCi/L
2037	111540	-	22-APR-93	SR-90	UNFL		2.100	J	0	pCi/L
2037	111540	-	22-APR-93	U-TOTAL	UNFL		4.500	-	2.92	ug/L
2037	111540	-	22-APR-93	U-238	UNFL		1.920	J	.9	pCi/L
2037	111540	-	22-APR-93	U-234	UNFL		2.050	J	1.9	pCi/L
2037	111540	-	22-APR-93	U-235/236	UNFL		.120	J	0	pCi/L
2052	111546	-	29-APR-93	PU-238	UNFL		.155	J	0	pCi/L
2052	111546	-	29-APR-93	U-TOTAL	UNFL		3.450	-	2.92	ug/L
2052	111546	-	29-APR-93	U-238	UNFL		1.360	-	.9	pCi/L
2947	111572	-	19-MAY-93	PU-238	UNFL	DUP	.066	J	0	pCi/L
2947	111572	-	19-MAY-93	SR-90	UNFL	DUP	1.210	J	0	pCi/L
2947	111572	-	19-MAY-93	RA-226	UNFL	DUP	1.210	J	1.2	pCi/L
2947	111574	-	19-MAY-93	SR-90	UNFL	DUP	1.370	J	0	pCi/L
2947	111574	-	19-MAY-93	U-235/236	UNFL	DUP	.051	J	0	pCi/L
2947	115473	-	19-MAY-93	PU-238	FLTR		.890	J	0	pCi/L
2947	115473	-	19-MAY-93	RA-226	FLTR		1.280	J	1.2	pCi/L
2947	115473	-	19-MAY-93	SR-90	FLTR		.870	J	0	pCi/L
2947	115475	-	19-MAY-93	PU-238	UNFL		.052	J	0	pCi/L
2947	115475	-	19-MAY-93	RA-226	UNFL		1.340	J	1.2	pCi/L
2947	115475	-	19-MAY-93	U-235/236	UNFL		.050	J	0	pCi/L
2947	115475	-	19-MAY-93	SR-90	UNFL		1.370	J	0	pCi/L
2949	111489	-	17-APR-93	SR-90	UNKN		.692	J	0	pCi/L
2949	115479	-	26-MAY-93	PU-238	UNFL		.278	J	0	pCi/L
2949	115479	-	26-MAY-93	SR-90	UNFL		.754	J	0	pCi/L
2951	111536	-	01-MAY-93	SR-90	UNFL		2.380	J	0	pCi/L
2951	115478	-	25-MAY-93	NP-237	UNFL		.318	N	0	pCi/L
2951	115478	-	25-MAY-93	SR-90	UNFL		1.740	J	0	pCi/L
2953	115488	-	23-JUN-93	SR-90	UNFL		1.010	J	0	pCi/L
VOLATILE ORGANICS										
2052	111546	-	29-APR-93	Acetone	UNFL		2.000	J	0	ug/L
SEMITOLATILE ORGANICS										
2949	111489	-	17-APR-93	Butyl benzyl phthalate	UNFL		1.000	J	0	ug/L
2953	115488	-	23-JUN-93	Butyl benzyl phthalate	UNFL		1.000	J	0	ug/L

See footnotes at end of table

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TABLE C-2L
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
GENERAL CHEMISTRY									
2027	111543	-	23-APR-93	Total Kjeldahl Nitrogen	UNFL		.580 -	0	mg/L
2037	111540	-	22-APR-93	Total Kjeldahl Nitrogen	UNFL		.160 -	0	mg/L
2052	111546	-	29-APR-93	Total Kjeldahl Nitrogen	UNFL		.290 -	0	mg/L
2947	111572	-	19-MAY-93	Total Organic Halides	UNFL	DUP	.023 -	.021	mg/L
2947	115473	-	19-MAY-93	Total Organic Halides	UNFL		.024 -	.021	mg/L
2949	111489	-	17-APR-93	Total Kjeldahl Nitrogen	UNFL		.350 -	0	mg/L
2951	111536	-	01-MAY-93	Total Kjeldahl Nitrogen	UNFL		.220 -	0	mg/L
2953	115488	-	23-JUN-93	Total Kjeldahl Nitrogen	UNFL		.110 -	0	mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

DUP = Duplicate Sample

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REMP-OU02-4 DRAFT
February 18, 1994

TABLE C-3A
SOLID WASTE LANDFILL
RI/FS SURFACE SOIL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SS-01			SWL-SS-02			SWL-SS-03		
SAMPLING DATE	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.257	pCi/g	-	0.103	pCi/g	J	0.115	pCi/g	UJ
GROSS ALPHA	37.600	pCi/g	-	61.900	pCi/g	-	85.800	pCi/g	-
GROSS BETA	35.700	pCi/g	-	77.200	pCi/g	-	112.000	pCi/g	-
NP-237	0.067	pCi/g	R	0.115	pCi/g	N	0.147	pCi/g	N
PU-238	0.026	pCi/g	UJ	0.057	pCi/g	J	0.095	pCi/g	J
PU-239/240	0.026	pCi/g	UJ	0.019	pCi/g	J	0.085	pCi/g	J
RA-226	0.915	pCi/g	-	1.160	pCi/g	-	1.040	pCi/g	-
RA-228	0.843	pCi/g	-	1.010	pCi/g	-	1.280	pCi/g	-
RU-106	0.944	pCi/g	UJ	0.668	pCi/g	UJ	0.677	pCi/g	UJ
SR-90	0.580	pCi/g	-	1.230	pCi/g	-	0.477	pCi/g	UJ
TC-99	0.335	pCi/g	UJ	0.334	pCi/g	UJ	0.346	pCi/g	UJ
TH-228	0.814	pCi/g	-	1.080	pCi/g	-	1.140	pCi/g	-
TH-230	2.210	pCi/g	-	3.740	pCi/g	-	3.240	pCi/g	-
TH-232	0.787	pCi/g	-	0.981	pCi/g	-	1.040	pCi/g	-
TH-TOTAL	7.170	mg/kg	-	8.940	mg/kg	-	9.460	mg/kg	-
U-234	5.940	pCi/g	-	13.500	pCi/g	-	33.100	pCi/g	-
U-235/236	0.512	pCi/g	J	0.816	pCi/g	-	1.920	pCi/g	-
U-238	13.600	pCi/g	-	34.600	pCi/g	-	63.800	pCi/g	-
U-TOTAL	39.800	mg/kg	-	114.000	mg/kg	-	194.000	mg/kg	-

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- 5173
FEMP-OU02-4 DRAFT
February 18, 1994

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TABLE C-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	SWL-SS-04			SWL-SS-05			SWL-SS-06				
SAMPLE NUMBER	111300	RESULTS	UNITS	VQ	111301	RESULTS	UNITS	VQ	111303		
SAMPLING DATE	0 - 0.5			-	0 - 0.5			-	0 - 0.5		
RADIOLOGICAL PARAMETERS											
CS-137	0.103	pCi/g	UJ		0.121	pCi/g	UJ		0.108	pCi/g	J
GROSS ALPHA	76.700	pCi/g	-		95.000	pCi/g	-		21.000	pCi/g	-
GROSS BETA	64.300	pCi/g	-		91.600	pCi/g	-		25.800	pCi/g	-
NP-237	0.047	pCi/g	R		0.194	pCi/g	N		0.031	pCi/g	R
PU-238	0.207	pCi/g	UJ		0.072	pCi/g	J		0.049	pCi/g	J
PU-239/240	0.059	pCi/g	UJ		0.126	pCi/g	J		0.031	pCi/g	UJ
RA-226	1.120	pCi/g	-		1.590	pCi/g	-		1.260	pCi/g	-
RA-228	2.990	pCi/g	-		1.300	pCi/g	-		0.918	pCi/g	-
RU-106	0.793	pCi/g	UJ		0.923	pCi/g	UJ		0.073	pCi/g	UJ
SR-90	1.090	pCi/g	UJ		0.525	pCi/g	UJ		0.789	pCi/g	J
TC-99	0.349	pCi/g	UJ		0.327	pCi/g	UJ		0.358	pCi/g	UJ
TH-228	2.330	pCi/g	-		1.410	pCi/g	-		0.790	pCi/g	-
TH-230	2.140	pCi/g	-		9.610	pCi/g	-		1.190	pCi/g	-
TH-232	2.500	pCi/g	-		1.250	pCi/g	-		0.742	pCi/g	-
TH-TOTAL	22.800	mg/kg	-		11.400	mg/kg	-		6.760	mg/kg	-
U-234	22.200	pCi/g	-		48.900	pCi/g	-		1.830	pCi/g	-
U-235/236	1.260	pCi/g	-		3.330	pCi/g	-		0.120	pCi/g	J
U-238	29.400	pCi/g	-		49.400	pCi/g	-		2.430	pCi/g	-
U-TOTAL	90.800	mg/kg	-		143.000	mg/kg	-		9.770	mg/kg	J

C-3-2

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TABLE C-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	SWL-SS-07	SWL-SS-08	SWL-SS-09
SAMPLE NUMBER	111304	111492	111307
SAMPLING DATE	0 - 0.5 04/02/93	0 - 0.5 04/19/93	0 - 0.5 04/02/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.077	pCi/g	UJ
GROSS ALPHA	23.400	pCi/g	-
GROSS BETA	22.100	pCi/g	-
NP-237	0.046	pCi/g	N
PU-238	0.023	pCi/g	J
PU-239/240	0.021	pCi/g	UJ
RA-226	0.975	pCi/g	-
RA-228	0.721	pCi/g	-
RU-106	0.680	pCi/g	UJ
SR-90	1.050	pCi/g	C
TC-99	0.337	pCi/g	CJ
TH-228	0.482	pCi/g	-
TH-230	0.939	pCi/g	-
TH-232	0.601	pCi/g	-
TH-TOTAL	5.480	mg/kg	-
U-234	1.430	pCi/g	-
U-235/236	0.076	pCi/g	J
U-238	2.340	pCi/g	-
U-TOTAL	6.860	mg/kg	J
	0.072	pCi/g	-
	46.200	pCi/g	-
	54.100	pCi/g	-
	0.075	pCi/g	C
	0.902	pCi/g	-
	0.113	pCi/g	C
	1.120	pCi/g	-
	1.450	pCi/g	C
	0.953	pCi/g	CJ
	0.432	pCi/g	CJ
	0.373	pCi/g	C
	1.210	pCi/g	C
	3.130	pCi/g	C
	1.040	pCi/g	C
	9.570	mg/kg	-
	12.400	pCi/g	-
	0.809	pCi/g	-
	26.900	pCi/g	-
	97.000	mg/kg	-
	0.168	pCi/g	J
	31.000	pCi/g	-
	32.300	pCi/g	-
	0.064	pCi/g	C
	0.019	pCi/g	C
	0.032	pCi/g	C
	2.260	pCi/g	-
	1.160	pCi/g	-
	0.945	pCi/g	C
	1.440	pCi/g	C
	0.334	pCi/g	C
	1.080	pCi/g	-
	3.880	pCi/g	-
	1.070	pCi/g	-
	9.720	mg/kg	-
	6.700	pCi/g	-
	0.398	pCi/g	C
	8.210	pCi/g	C
	27.500	mg/kg	C

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-5173

TABLE C-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SS-10			SWL-SS-11			SWL-SS-12		
SAMPLING DATE	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.093	pCi/g	UJ	0.074	pCi/g	UJ	0.115	pCi/g	UJ
GROSS ALPHA	31.900	pCi/g	-	17.400	pCi/g	-	41.500	pCi/g	-
GROSS BETA	28.400	pCi/g	-	27.800	pCi/g	-	31.800	pCi/g	-
NP-237	0.046	pCi/g	-	0.043	pCi/g	-	3.110	pCi/g	N
PU-238	0.097	pCi/g	-	0.015	pCi/g	-	0.333	pCi/g	J
PU-239/240	0.025	pCi/g	-	0.023	pCi/g	-	0.044	pCi/g	UJ
RA-226	1.010	pCi/g	-	0.920	pCi/g	-	1.130	pCi/g	-
RA-228	1.210	pCi/g	-	0.847	pCi/g	-	2.070	pCi/g	-
RU-106	0.080	pCi/g	UJ	0.695	pCi/g	UJ	1.846	pCi/g	UJ
SR-90	0.527	pCi/g	-	0.422	pCi/g	-	1.070	pCi/g	J
TC-99	0.351	pCi/g	UJ	0.358	pCi/g	UJ	0.354	pCi/g	UJ
TH-228	1.120	pCi/g	-	0.906	pCi/g	-	1.730	pCi/g	R
TH-230	1.340	pCi/g	-	1.210	pCi/g	-	1.680	pCi/g	R
TH-232	1.160	pCi/g	-	0.677	pCi/g	-	1.330	pCi/g	R
TH-TOTAL	10.600	mg/kg	R	6.170	mg/kg	R	12.100	mg/kg	R
U-234	2.280	pCi/g	-	4.970	pCi/g	-	5.460	pCi/g	-
U-235/236	0.120	pCi/g	-	0.288	pCi/g	-	0.346	pCi/g	J
U-238	2.900	pCi/g	-	6.680	pCi/g	-	5.580	pCi/g	-
U-TOTAL	10.500	mg/kg	-	19.500	mg/kg	-	18.700	mg/kg	-

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-01	SWL-SS-02	SWL-SS-03
SAMPLE NUMBER	111293	111297	111298
SAMPLING DATE	0-0.5	0-0.5	0-0.5
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	8940.000	mg/kg C J	10200.000
Antimony	1.200	mg/kg C UJ	0.900
Arsenic	6.600	mg/kg C	6.700
Barium	58.700	mg/kg C	69.800
Beryllium	0.530	mg/kg C	0.550
Cadmium	1.200	mg/kg C	0.900
Calcium	69100.000	mg/kg C	36100.000
Chromium	14.700	mg/kg C	12.000
Cobalt	4.600	mg/kg C	7.800
Copper	14.100	mg/kg C	15.500
Cyanide	0.130	mg/kg C	0.120
Iron	15300.000	mg/kg C	17800.000
Lead	5.600	mg/kg C	13.000
Magnesium	22400.000	mg/kg C	9660.000
Manganese	444.000	mg/kg C	508.000
Mercury	0.110	mg/kg C	0.110
Molybdenum	4.900	mg/kg C	5.300
Nickel	12.800	mg/kg C	12.900
Potassium	1280.000	mg/kg C	1050.000
Selenium	0.490	mg/kg C	0.490
Silicon	933.000	mg/kg C	756.000
Silver	4.300	mg/kg C	5.100
Sodium	117.000	mg/kg C	91.600
Thallium	0.490	mg/kg C	0.490
Vanadium	24.200	mg/kg C	27.800
Zinc	83.400	mg/kg C	44.000
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	13.000	ug/kg C U	12.000
1,1,2,2-Tetrachloroethane	13.000	ug/kg C	12.000
1,1,2-Trichloroethane	13.000	ug/kg C	12.000
1,1-Dichloroethane	13.000	ug/kg C	12.000
1,1-Dichloroethene	13.000	ug/kg C	12.000
1,2-Dichloroethane	13.000	ug/kg C	12.000
1,2-Dichloroethene	13.000	ug/kg C	12.000
1,2-Dichloropropane	13.000	ug/kg C	12.000
2-Butanone	1.000	ug/kg C	12.000
2-Hexanone	13.000	ug/kg C UJ	12.000
4-Methyl-2-pentanone	13.000	ug/kg C	12.000
Acetone	1.000	ug/kg C	2.000
Benzene	13.000	ug/kg C U	12.000

C-3-5

TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-01	SWL-SS-02	SWL-SS-03			
SAMPLE NUMBER	111293	111297	111298			
SAMPLING DATE	0-0.5 04/01/93	0-0.5 04/01/93	0-0.5 04/01/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Bromoform	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Bromomethane	13.000	ug/kg C U	12.000	ug/kg C U	2.000	ug/kg C J
Carbon Tetrachloride	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Carbon disulfide	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chlorobenzene	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chloroethane	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chloroform	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chloromethane	13.000	ug/kg C U	12.000	ug/kg C U	2.000	ug/kg C J
Dibromochloromethane	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Ethylbenzene	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Methylene chloride	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Styrene	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Tetrachloroethene	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Toluene	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Trichloroethene	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Vinyl Acetate	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Vinyl chloride	13.000	ug/kg C UJ	12.000	ug/kg C UJ	11.000	ug/kg C UJ
Xylenes, Total	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
cis-1,3-Dichloropropene	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
trans-1,3-Dichloropropene	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
1,2-Dichlorobenzene	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
1,3-Dichlorobenzene	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
1,4-Dichlorobenzene	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
2,4,5-Trichlorophenol	1000.000	ug/kg C UJ	1000.000	ug/kg C UJ	940.000	ug/kg C UJ
2,4,6-Trichlorophenol	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
2,4-Dichlorophenol	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
2,4-Dimethylphenol	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
2,4-Dinitrophenol	1000.000	ug/kg C UJ	1000.000	ug/kg C UJ	940.000	ug/kg C UJ
2,4-Dinitrotoluene	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
2,6-Dinitrotoluene	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
2-Chloronaphthalene	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
2-Chlorophenol	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
2-Methylnaphthalene	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
2-Methylphenol	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
2-Nitroaniline	1000.000	ug/kg C UJ	1000.000	ug/kg C UJ	940.000	ug/kg C UJ
2-Nitrophenol	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ
3,3'-Dichlorobenzidine	430.000	ug/kg C UJ	410.000	ug/kg C UJ	390.000	ug/kg C UJ

TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-01	SWL-SS-02	SWL-SS-03
SAMPLE NUMBER	111293	111297	111298
SAMPLING DATE	0-0.5	0-0.5	0-0.5
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
3-Nitroaniline	1000.000	ug/kg C UJ	1000.000
4,6-Dinitro-2-methylphenol	1000.000	ug/kg C UJ	940.000
4-Bromophenyl phenyl ether	430.000	ug/kg C UJ	940.000
4-Chloro-3-methylphenol	430.000	ug/kg C UJ	390.000
4-Chlorophenylphenyl ether	430.000	ug/kg C UJ	390.000
4-Methylphenol	430.000	ug/kg C UJ	390.000
4-Nitroaniline	1000.000	ug/kg C UJ	940.000
4-Nitrophenol	1000.000	ug/kg C UJ	940.000
Acenaphthene	120.000	ug/kg C UJ	390.000
Acenaphthylene	430.000	ug/kg C UJ	390.000
Anthracene	230.000	ug/kg C UJ	390.000
Benzo(a)anthracene	880.000	ug/kg C UJ	110.000
Benzo(a)pyrene	760.000	ug/kg C UJ	110.000
Benzo(b)fluoranthene	710.000	ug/kg C UJ	96.000
Benzo(g,h,i)perylene	500.000	ug/kg C UJ	82.000
Benzo(k)fluoranthene	880.000	ug/kg C UJ	150.000
Benzoic acid	2100.000	ug/kg C UJ	1900.000
Benzyl alcohol	430.000	ug/kg C UJ	390.000
Butyl benzyl phthalate	430.000	ug/kg C UJ	390.000
Carbazole	77.000	ug/kg C J	390.000
Chrysene	1100.000	ug/kg C J	150.000
Di-n-butyl phthalate	430.000	ug/kg C UJ	390.000
Di-n-octyl phthalate	430.000	ug/kg C UJ	390.000
Dibenzo(a,h)anthracene	430.000	ug/kg C UJ	390.000
Dibenzofuran	200.000	ug/kg C J	390.000
Diethyl phthalate	56.000	ug/kg C J	390.000
Dimethyl phthalate	430.000	ug/kg C UJ	390.000
Fluoranthene	1900.000	ug/kg C J	260.000
Fluorene	100.000	ug/kg C J	390.000
Hexachlorobenzene	430.000	ug/kg C UJ	390.000
Hexachlorobutadiene	430.000	ug/kg C UJ	390.000
Hexachlorocyclopentadiene	430.000	ug/kg C UJ	390.000
Hexachloroethane	430.000	ug/kg C UJ	390.000
Indeno(1,2,3-cd)pyrene	480.000	ug/kg C J	73.000
Isophorone	430.000	ug/kg C UJ	390.000
N-Nitroso-di-n-propylamine	430.000	ug/kg C UJ	390.000
N-Nitrosodiphenylamine	430.000	ug/kg C UJ	390.000
Naphthalene	430.000	ug/kg C UJ	390.000
Nitrobenzene	430.000	ug/kg C UJ	390.000
Pentachlorophenol	1000.000	ug/kg C UJ	940.000
Phenanthrene	1500.000	ug/kg C J	150.000
Phenol	430.000	ug/kg C UJ	390.000

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-01	SWL-SS-02	SWL-SS-03			
SAMPLE NUMBER	111293	111297	111298			
SAMPLING DATE	0-0.5	0-0.5	0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	2100.000	ug/kg C JJ	55.000	ug/kg C J	260.000	ug/kg C JJ
bis(2-Chloroethoxy)methane	430.000	ug/kg C JJ	410.000	ug/kg C JJ	390.000	ug/kg C JJ
bis(2-Chloroethyl)ether	430.000	ug/kg C JJ	410.000	ug/kg C JJ	390.000	ug/kg C JJ
bis(2-Chloroisopropyl) ether	430.000	ug/kg C JJ	410.000	ug/kg C JJ	390.000	ug/kg C JJ
bis(2-Ethylhexyl) phthalate	430.000	ug/kg C JJ	410.000	ug/kg C JJ	390.000	ug/kg C JJ
p-Chloroaniline	430.000	ug/kg C JJ	410.000	ug/kg C JJ	390.000	ug/kg C JJ
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.300	ug/kg C JJ	4.100	ug/kg C JJ	3.800	ug/kg C JJ
4,4'-DDE	4.300	ug/kg C JJ	4.100	ug/kg C JJ	3.800	ug/kg C JJ
4,4'-DDT	4.300	ug/kg C JJ	4.100	ug/kg C JJ	3.800	ug/kg C JJ
Aldrin	2.200	ug/kg C JJ	2.100	ug/kg C JJ	2.000	ug/kg C JJ
Aroclor-1016	43.000	ug/kg C JJ	41.000	ug/kg C JJ	38.000	ug/kg C JJ
Aroclor-1221	87.000	ug/kg C JJ	84.000	ug/kg C JJ	78.000	ug/kg C JJ
Aroclor-1232	43.000	ug/kg C JJ	41.000	ug/kg C JJ	38.000	ug/kg C JJ
Aroclor-1242	43.000	ug/kg C JJ	41.000	ug/kg C JJ	38.000	ug/kg C JJ
Aroclor-1248	43.000	ug/kg C JJ	41.000	ug/kg C JJ	38.000	ug/kg C JJ
Aroclor-1254	43.000	ug/kg C JJ	41.000	ug/kg C JJ	38.000	ug/kg C JJ
Aroclor-1260	43.000	ug/kg C JJ	41.000	ug/kg C JJ	38.000	ug/kg C JJ
Dieldrin	4.300	ug/kg C JJ	4.100	ug/kg C JJ	3.800	ug/kg C JJ
Endosulfan II	4.300	ug/kg C JJ	4.100	ug/kg C JJ	3.800	ug/kg C JJ
Endosulfan sulfate	4.300	ug/kg C JJ	4.100	ug/kg C JJ	3.800	ug/kg C JJ
Endosulfan-I	2.200	ug/kg C JJ	2.100	ug/kg C JJ	2.000	ug/kg C JJ
Endrin	4.300	ug/kg C JJ	4.100	ug/kg C JJ	3.800	ug/kg C JJ
Endrin aldehyde	4.300	ug/kg C JJ	4.100	ug/kg C JJ	3.800	ug/kg C JJ
Endrin ketone	4.300	ug/kg C JJ	4.100	ug/kg C JJ	3.800	ug/kg C JJ
Heptachlor	2.200	ug/kg C JJ	2.100	ug/kg C JJ	2.000	ug/kg C JJ
Heptachlor epoxide	2.200	ug/kg C JJ	2.100	ug/kg C JJ	2.000	ug/kg C JJ
Methoxychlor	22.000	ug/kg C JJ	21.000	ug/kg C JJ	20.000	ug/kg C JJ
Toxaphene	220.000	ug/kg C JJ	210.000	ug/kg C JJ	200.000	ug/kg C JJ
alpha-BHC	2.200	ug/kg C JJ	2.100	ug/kg C JJ	2.000	ug/kg C JJ
alpha-Chlordane	2.200	ug/kg C JJ	2.100	ug/kg C JJ	2.000	ug/kg C JJ
beta-BHC	2.200	ug/kg C JJ	2.100	ug/kg C JJ	2.000	ug/kg C JJ
delta-BHC	2.200	ug/kg C JJ	2.100	ug/kg C JJ	2.000	ug/kg C JJ
gamma-BHC (Lindane)	2.200	ug/kg C JJ	2.100	ug/kg C JJ	2.000	ug/kg C JJ
gamma-Chlordane	2.200	ug/kg C JJ	2.100	ug/kg C JJ	2.000	ug/kg C JJ

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-04				SWL-SS-05				SWL-SS-06			
SAMPLE NUMBER	111300	mg/kg	C	J	111301	mg/kg	C	J	111303	mg/kg	D	J
SAMPLING DATE	0-0.5	mg/kg	C	UJ	0-0.5	mg/kg	C	UJ	0-0.5	mg/kg	D	UJ
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	13800.000	mg/kg	C	J	9730.000	mg/kg	C	J	11000.000	mg/kg	D	J
Antimony	0.960	mg/kg	C	UJ	1.200	mg/kg	C	UJ	0.840	mg/kg	D	UJ
Arsenic	6.100	mg/kg	C	UJ	8.300	mg/kg	C	UJ	6.000	mg/kg	D	UJ
Barium	88.000	mg/kg	C	UJ	95.700	mg/kg	C	UJ	78.100	mg/kg	D	UJ
Beryllium	0.720	mg/kg	C	UJ	0.580	mg/kg	C	UJ	0.570	mg/kg	D	UJ
Cadmium	0.960	mg/kg	C	UJ	1.200	mg/kg	C	UJ	0.840	mg/kg	D	UJ
Calcium	71900.000	mg/kg	C	UJ	66600.000	mg/kg	C	UJ	64800.000	mg/kg	D	UJ
Chromium	16.300	mg/kg	C	UJ	13.100	mg/kg	C	UJ	12.300	mg/kg	D	UJ
Cobalt	7.700	mg/kg	C	UJ	10.200	mg/kg	C	UJ	4.800	mg/kg	D	UJ
Copper	19.900	mg/kg	C	UJ	57.600	mg/kg	C	UJ	14.100	mg/kg	D	UJ
Cyanide	0.140	mg/kg	C	UJ	0.120	mg/kg	C	UJ	0.120	mg/kg	D	UJ
Iron	24000.000	mg/kg	C	UJ	18700.000	mg/kg	C	UJ	16100.000	mg/kg	D	UJ
Lead	5.300	mg/kg	C	UJ	16.300	mg/kg	C	UJ	12.800	mg/kg	D	UJ
Magnesium	18800.000	mg/kg	C	UJ	18200.000	mg/kg	C	UJ	32800.000	mg/kg	D	UJ
Manganese	555.000	mg/kg	C	UJ	826.000	mg/kg	C	UJ	553.000	mg/kg	D	UJ
Mercury	0.130	mg/kg	C	UJ	0.110	mg/kg	C	UJ	0.100	mg/kg	D	UJ
Molybdenum	7.300	mg/kg	C	UJ	6.100	mg/kg	C	UJ	5.300	mg/kg	D	UJ
Nickel	18.600	mg/kg	C	UJ	23.100	mg/kg	C	UJ	13.100	mg/kg	D	UJ
Potassium	1700.000	mg/kg	C	UJ	1490.000	mg/kg	C	UJ	1740.000	mg/kg	D	UJ
Selenium	0.480	mg/kg	C	UJ	0.370	mg/kg	C	UJ	0.480	mg/kg	D	UJ
Silicon	453.000	mg/kg	C	UJ	583.000	mg/kg	C	UJ	792.000	mg/kg	D	UJ
Silver	7.000	mg/kg	C	UJ	5.500	mg/kg	C	UJ	4.700	mg/kg	D	UJ
Sodium	149.000	mg/kg	C	UJ	118.000	mg/kg	C	UJ	133.000	mg/kg	D	UJ
Thallium	0.480	mg/kg	C	UJ	0.370	mg/kg	C	UJ	0.480	mg/kg	D	UJ
Vanadium	34.900	mg/kg	C	UJ	26.200	mg/kg	C	UJ	27.900	mg/kg	D	UJ
Zinc	55.900	mg/kg	C	UJ	48.700	mg/kg	C	UJ	46.900	mg/kg	D	UJ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
1,1,2,2-Tetrachloroethane	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
1,1,2-Trichloroethane	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
1,1-Dichloroethane	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
1,1-Dichloroethene	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
1,2-Dichloroethane	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
1,2-Dichloroethene	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
1,2-Dichloropropane	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
2-Butanone	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
2-Hexanone	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
4-Methyl-2-pentanone	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
Acetone	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ
Benzene	14.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ	12.000	ug/kg	C	UJ

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-04		SWL-SS-05		SWL-SS-06	
SAMPLE NUMBER	111300		111301		111303	
SAMPLING DATE	0-0.5		0-0.5		0-0.5	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Volatile Organics</u>						
Bromodichloromethane	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromoform	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Carbon Tetrachloride	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chlorobenzene	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroform	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Dibromochloromethane	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Ethylbenzene	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Methylene chloride	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Styrene	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethene	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Toluene	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Trichloroethene	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl Acetate	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl chloride	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
cis-1,3-Dichloropropene	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	14.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
1,2-Dichlorobenzene	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
1,3-Dichlorobenzene	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
1,4-Dichlorobenzene	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
2,4,5-Trichlorophenol	1100.000	ug/kg C U	1000.000	ug/kg C U	980.000	ug/kg C U
2,4,6-Trichlorophenol	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
2,4-Dichlorophenol	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
2,4-Dimethylphenol	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
2,4-Dinitrophenol	1100.000	ug/kg C U	1000.000	ug/kg C U	980.000	ug/kg C U
2,4-Dinitrotoluene	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
2,6-Dinitrotoluene	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
2-Chloronaphthalene	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
2-Chlorophenol	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
2-Methylnaphthalene	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
2-Methylphenol	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
2-Nitroaniline	1100.000	ug/kg C U	1000.000	ug/kg C U	980.000	ug/kg C U
2-Nitrophenol	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U
3,3'-Dichlorobenzidine	460.000	ug/kg C U	410.000	ug/kg C U	410.000	ug/kg C U

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-04	SWL-SS-05	SWL-SS-06
SAMPLE NUMBER	111300	111301	111303
SAMPLING DATE	0-0.5	0-0.5	0-0.5
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
3-Nitroaniline	1100.000	ug/kg C UJ	1000.000
4,6-Dinitro-2-methylphenol	1100.000	ug/kg C UJ	1000.000
4-Bromophenyl phenyl ether	460.000	ug/kg C UJ	410.000
4-Chloro-3-methylphenol	460.000	ug/kg C UJ	410.000
4-Chlorophenylphenyl ether	460.000	ug/kg C UJ	410.000
4-Methylphenol	460.000	ug/kg C UJ	410.000
4-Nitroaniline	1100.000	ug/kg C UJ	1000.000
4-Nitrophenol	1100.000	ug/kg C UJ	1000.000
Acenaphthene	460.000	ug/kg C UJ	410.000
Acenaphthylene	460.000	ug/kg C UJ	410.000
Anthracene	460.000	ug/kg C UJ	410.000
Benzo(a)anthracene	140.000	ug/kg C J	55.000
Benzo(a)pyrene	140.000	ug/kg C J	59.000
Benzo(b)fluoranthene	140.000	ug/kg C UJ	410.000
Benzo(g,h,i)perylene	93.000	ug/kg C UJ	410.000
Benzo(k)fluoranthene	140.000	ug/kg C J	78.000
Benzoic acid	2200.000	ug/kg C UJ	2000.000
Benzyl alcohol	460.000	ug/kg C UJ	410.000
Butyl benzyl phthalate	460.000	ug/kg C UJ	410.000
Carbazole	460.000	ug/kg C UJ	410.000
Chrysene	180.000	ug/kg C J	77.000
Di-n-butyl phthalate	55.000	ug/kg C UJ	410.000
Di-n-octyl phthalate	460.000	ug/kg C UJ	410.000
Dibenz(a,h)anthracene	460.000	ug/kg C UJ	410.000
Dibenzofuran	460.000	ug/kg C UJ	410.000
Diethyl phthalate	460.000	ug/kg C UJ	410.000
Dimethyl phthalate	460.000	ug/kg C UJ	410.000
Fluoranthene	300.000	ug/kg C J	130.000
Fluorene	460.000	ug/kg C UJ	410.000
Hexachlorobenzene	460.000	ug/kg C UJ	410.000
Hexachlorobutadiene	460.000	ug/kg C UJ	410.000
Hexachlorocyclopentadiene	460.000	ug/kg C UJ	410.000
Hexachloroethane	460.000	ug/kg C UJ	410.000
Indeno(1,2,3-cd)pyrene	91.000	ug/kg C UJ	410.000
Isophorone	460.000	ug/kg C UJ	410.000
N-Nitroso-di-n-propylamine	460.000	ug/kg C UJ	410.000
N-Nitrosodiphenylamine	460.000	ug/kg C UJ	410.000
Naphthalene	460.000	ug/kg C UJ	410.000
Nitrobenzene	460.000	ug/kg C UJ	410.000
Pentachlorophenol	1100.000	ug/kg C UJ	1000.000
Phenanthrene	150.000	ug/kg C J	90.000
Phenol	460.000	ug/kg C UJ	410.000

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-04		SWL-SS-05		SWL-SS-06	
SAMPLE NUMBER	111300		111301		111303	
SAMPLING DATE	0-0.5		0-0.5		0-0.5	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>						
Pyrene	300.000	ug/kg C J	130.000	ug/kg C J	660.000	ug/kg C J
bis(2-Chloroethoxy)methane	460.000	ug/kg C UJ	410.000	ug/kg C UJ	410.000	ug/kg C UJ
bis(2-Chloroethyl)ether	460.000	ug/kg C UJ	410.000	ug/kg C UJ	410.000	ug/kg C UJ
bis(2-Chloroisopropyl) ether	460.000	ug/kg C UJ	410.000	ug/kg C UJ	410.000	ug/kg C UJ
bis(2-Ethylhexyl) phthalate	460.000	ug/kg C UJ	48.000	ug/kg C J	43.000	ug/kg C J
p-Chloroaniline	460.000	ug/kg C UJ	410.000	ug/kg C UJ	410.000	ug/kg C UJ
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.700	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C UJ
4,4'-DDE	4.700	ug/kg C UJ	4.100	ug/kg C UJ	12.000	ug/kg C UJ
4,4'-DDT	4.700	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C UJ
Aldrin	2.400	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ
Aroclor-1016	47.000	ug/kg C UJ	41.000	ug/kg C UJ	41.000	ug/kg C UJ
Aroclor-1221	95.000	ug/kg C UJ	83.000	ug/kg C UJ	82.000	ug/kg C UJ
Aroclor-1232	47.000	ug/kg C UJ	41.000	ug/kg C UJ	41.000	ug/kg C UJ
Aroclor-1242	47.000	ug/kg C UJ	41.000	ug/kg C UJ	41.000	ug/kg C UJ
Aroclor-1248	47.000	ug/kg C UJ	41.000	ug/kg C UJ	41.000	ug/kg C UJ
Aroclor-1254	47.000	ug/kg C UJ	41.000	ug/kg C UJ	41.000	ug/kg C UJ
Aroclor-1260	47.000	ug/kg C UJ	41.000	ug/kg C UJ	41.000	ug/kg C UJ
Dieldrin	4.700	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C UJ
Endosulfan II	4.700	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C UJ
Endosulfan sulfate	4.700	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C UJ
Endosulfan-I	2.400	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ
Endrin	4.700	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C UJ
Endrin aldehyde	4.700	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C UJ
Endrin ketone	4.700	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C UJ
Heptachlor	2.400	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ
Heptachlor epoxide	2.400	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ
Methoxychlor	24.000	ug/kg C UJ	21.000	ug/kg C UJ	21.000	ug/kg C UJ
Toxaphene	240.000	ug/kg C UJ	210.000	ug/kg C UJ	210.000	ug/kg C UJ
alpha-BHC	2.400	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ
alpha-Chlordane	2.400	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ
beta-BHC	2.400	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ
delta-BHC	2.400	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ
gamma-BHC (Lindane)	2.400	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ
gamma-Chlordane	2.400	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SS-07 111304 0-0.5	SWL-SS-09 111307 0-0.5	SWL-SS-10 111309 0-0.5									
SAMPLING DATE	04/02/93	04/02/93	04/02/93									
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	6610.000	mg/kg	C	J	15900.000	mg/kg	C	J	18400.000	mg/kg	C	J
Antimony	1.100	mg/kg	C	UJ	1.200	mg/kg	C	UJ	1.100	mg/kg	C	UJ
Arsenic	5.400	mg/kg	CC	-	7.000	mg/kg	C	-	5.000	mg/kg	C	-
Barium	44.600	mg/kg	C	-	101.000	mg/kg	C	-	96.700	mg/kg	C	-
Beryllium	0.510	mg/kg	C	-	0.850	mg/kg	C	-	0.970	mg/kg	C	-
Cadmium	1.100	mg/kg	C	-	1.200	mg/kg	C	-	1.100	mg/kg	C	-
Calcium	77000.000	mg/kg	C	-	21600.000	mg/kg	C	-	6970.000	mg/kg	C	-
Chromium	8.200	mg/kg	CC	-	18.900	mg/kg	C	-	19.900	mg/kg	CC	-
Cobalt	2.800	mg/kg	CC	-	7.400	mg/kg	C	-	9.000	mg/kg	CC	-
Copper	8.600	mg/kg	CC	-	18.700	mg/kg	C	-	18.600	mg/kg	CC	-
Cyanide	0.110	mg/kg	C	-	0.130	mg/kg	C	-	0.120	mg/kg	C	-
Iron	10600.000	mg/kg	C	-	23200.000	mg/kg	C	-	23900.000	mg/kg	C	-
Lead	5.200	mg/kg	C	-	33.300	mg/kg	C	-	5.500	mg/kg	C	-
Magnesium	20800.000	mg/kg	C	-	7120.000	mg/kg	C	-	4330.000	mg/kg	C	-
Manganese	349.000	mg/kg	CC	-	644.000	mg/kg	C	-	510.000	mg/kg	C	-
Mercury	0.110	mg/kg	C	-	0.130	mg/kg	C	-	0.120	mg/kg	CC	-
Molybdenum	4.600	mg/kg	CC	-	6.400	mg/kg	C	-	6.400	mg/kg	C	-
Nickel	7.700	mg/kg	C	-	17.400	mg/kg	C	-	18.100	mg/kg	C	-
Potassium	945.000	mg/kg	C	-	1750.000	mg/kg	C	-	1800.000	mg/kg	C	-
Selenium	0.370	mg/kg	CC	-	0.530	mg/kg	C	-	0.420	mg/kg	C	-
Silicon	722.000	mg/kg	C	-	961.000	mg/kg	C	-	996.000	mg/kg	C	-
Silver	3.100	mg/kg	C	-	7.100	mg/kg	C	-	7.400	mg/kg	C	-
Sodium	113.000	mg/kg	C	-	86.300	mg/kg	C	-	67.900	mg/kg	CC	-
Thallium	0.370	mg/kg	C	-	0.530	mg/kg	C	-	0.420	mg/kg	C	-
Vanadium	17.700	mg/kg	C	-	42.600	mg/kg	C	-	46.000	mg/kg	C	-
Zinc	28.800	mg/kg	C	-	56.800	mg/kg	C	-	52.600	mg/kg	C	-
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	11.000	ug/kg	C	U	14.000	ug/kg	C	CC	12.000	ug/kg	CC	CC
1,1,2,2-Tetrachloroethane	11.000	ug/kg	CC	CC	14.000	ug/kg	C	CC	12.000	ug/kg	CC	CC
1,1,2-Trichloroethane	11.000	ug/kg	CC	CC	14.000	ug/kg	C	CC	12.000	ug/kg	CC	CC
1,1-Dichloroethane	11.000	ug/kg	C	CC	14.000	ug/kg	C	CC	12.000	ug/kg	C	CC
1,1-Dichloroethene	11.000	ug/kg	CC	CC	14.000	ug/kg	C	CC	12.000	ug/kg	C	CC
1,2-Dichloroethane	11.000	ug/kg	CC	CC	14.000	ug/kg	C	CC	12.000	ug/kg	C	CC
1,2-Dichloroethene	11.000	ug/kg	CC	CC	14.000	ug/kg	C	CC	12.000	ug/kg	C	CC
1,2-Dichloropropane	11.000	ug/kg	CC	CC	14.000	ug/kg	C	CC	12.000	ug/kg	C	CC
2-Butanone	11.000	ug/kg	CC	CC	14.000	ug/kg	C	CC	12.000	ug/kg	C	CC
2-Hexanone	11.000	ug/kg	CC	CC	14.000	ug/kg	C	CC	12.000	ug/kg	C	CC
4-Methyl-2-pentanone	11.000	ug/kg	C	UJ	14.000	ug/kg	C	CC	12.000	ug/kg	C	CC
Acetone	11.000	ug/kg	C	UJ	14.000	ug/kg	C	CC	3.000	ug/kg	C	CC
Benzene	11.000	ug/kg	C	U	14.000	ug/kg	C	U	12.000	ug/kg	C	CC

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TABLE C-3A
(Continued)

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PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-07	SWL-SS-09	SWL-SS-10			
SAMPLE NUMBER	111304	111307	111309			
SAMPLING DATE	0-0.5 04/02/93	0-0.5 04/02/93	0-0.5 04/02/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	11.000	ug/kg C U	14.000	ug/kg C U	12.000	ug/kg C U
Bromoform	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Bromomethane	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Carbon Tetrachloride	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Carbon disulfide	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Chlorobenzene	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Chloroethane	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Chloroform	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Chloromethane	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Dibromochloromethane	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Ethylbenzene	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Methylene chloride	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Styrene	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Tetrachloroethene	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Toluene	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Trichloroethene	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Vinyl Acetate	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Vinyl chloride	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
Xylenes, Total	11.000	ug/kg C UU	14.000	ug/kg C UU	12.000	ug/kg C UU
cis-1,3-Dichloropropene	11.000	ug/kg C U	14.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	11.000	ug/kg C U	14.000	ug/kg C U	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
1,2-Dichlorobenzene	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
1,3-Dichlorobenzene	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
1,4-Dichlorobenzene	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
2,4,5-Trichlorophenol	950.000	ug/kg C UU	1100.000	ug/kg C UU	1000.000	ug/kg C UU
2,4,6-Trichlorophenol	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
2,4-Dichlorophenol	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
2,4-Dimethylphenol	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
2,4-Dinitrophenol	950.000	ug/kg C UU	1100.000	ug/kg C UU	1000.000	ug/kg C UU
2,4-Dinitrotoluene	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
2,6-Dinitrotoluene	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
2-Chloronaphthalene	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
2-Chlorophenol	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
2-Methylnaphthalene	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
2-Methylphenol	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
2-Nitroaniline	950.000	ug/kg C UU	1100.000	ug/kg C UU	1000.000	ug/kg C UU
2-Nitrophenol	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU
3,3'-Dichlorobenzidine	390.000	ug/kg C UU	460.000	ug/kg C UU	420.000	ug/kg C UU

TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-07	SWL-SS-09	SWL-SS-10			
SAMPLE NUMBER	111304	111307	111309			
SAMPLING DATE	0-0.5 04/02/93	0-0.5 04/02/93	0-0.5 04/02/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3-Nitroaniline	950.000	ug/kg C UJ	1100.000	ug/kg C UJ	1000.000	ug/kg C UJ
4,6-Dinitro-2-methylphenol	950.000	ug/kg C UJ	1100.000	ug/kg C UJ	1000.000	ug/kg C UJ
4-Bromophenyl phenyl ether	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
4-Chloro-3-methylphenol	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
4-Chlorophenylphenyl ether	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
4-Methylphenol	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
4-Nitroaniline	950.000	ug/kg C UJ	1100.000	ug/kg C UJ	1000.000	ug/kg C UJ
4-Nitrophenol	950.000	ug/kg C UJ	1100.000	ug/kg C UJ	1000.000	ug/kg C UJ
Acenaphthene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Acenaphthylene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Anthracene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Benzo(a)anthracene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Benzo(a)pyrene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Benzo(b)fluoranthene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Benzo(g,h,i)perylene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Benzo(k)fluoranthene	42.000	ug/kg C J	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Benzoic acid	1900.000	ug/kg C UJ	2200.000	ug/kg C UJ	2000.000	ug/kg C UJ
Benzyl alcohol	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Butyl benzyl phthalate	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Carbazole	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Chrysene	49.000	ug/kg C J	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Di-n-butyl phthalate	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Di-n-octyl phthalate	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Dibenzo(a,h)anthracene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Dibenzofuran	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Diethyl phthalate	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Dimethyl phthalate	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Fluoranthene	85.000	ug/kg C J	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Fluorene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Hexachlorobenzene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Hexachlorobutadiene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Hexachlorocyclopentadiene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Hexachloroethane	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Indeno(1,2,3-cd)pyrene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Isophorone	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
N-Nitroso-di-n-propylamine	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
N-Nitrosodiphenylamine	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Naphthalene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Nitrobenzene	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Pentachlorophenol	950.000	ug/kg C UJ	1100.000	ug/kg C UJ	1000.000	ug/kg C UJ
Phenanthrene	59.000	ug/kg C J	460.000	ug/kg C UJ	420.000	ug/kg C UJ
Phenol	390.000	ug/kg C UJ	460.000	ug/kg C UJ	420.000	ug/kg C UJ

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-07			SWL-SS-09			SWL-SS-10					
SAMPLE NUMBER	111304	0-0.5	04/02/93	111307	0-0.5	04/02/93	111309	0-0.5	04/02/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Pyrene	130.000	ug/kg	C	J	49.000	ug/kg	C	J	420.000	ug/kg	C	UJ
bis(2-Chloroethoxy)methane	390.000	ug/kg	C	UJ	460.000	ug/kg	C	UJ	420.000	ug/kg	C	UJ
bis(2-Chloroethyl)ether	390.000	ug/kg	C	UJ	460.000	ug/kg	C	UJ	420.000	ug/kg	C	UJ
bis(2-Chloroisopropyl) ether	390.000	ug/kg	C	UJ	460.000	ug/kg	C	UJ	420.000	ug/kg	C	UJ
bis(2-Ethylhexyl) phthalate	40.000	ug/kg	C	J	460.000	ug/kg	C	UJ	420.000	ug/kg	C	UJ
p-Chloroaniline	390.000	ug/kg	C	UJ	460.000	ug/kg	C	UJ	420.000	ug/kg	C	UJ
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	3.900	ug/kg	C	UJ	4.500	ug/kg	C	UJ	4.300	ug/kg	C	UJ
4,4'-DDE	3.900	ug/kg	C	UJ	4.500	ug/kg	C	UJ	4.300	ug/kg	C	UJ
4,4'-DDT	3.900	ug/kg	C	UJ	4.500	ug/kg	C	UJ	4.300	ug/kg	C	UJ
Aldrin	2.000	ug/kg	C	UJ	2.300	ug/kg	C	UJ	2.200	ug/kg	C	UJ
Aroclor-1016	39.000	ug/kg	C	UJ	45.000	ug/kg	C	UJ	43.000	ug/kg	C	UJ
Aroclor-1221	79.000	ug/kg	C	UJ	92.000	ug/kg	C	UJ	86.000	ug/kg	C	UJ
Aroclor-1232	39.000	ug/kg	C	UJ	45.000	ug/kg	C	UJ	43.000	ug/kg	C	UJ
Aroclor-1242	39.000	ug/kg	C	UJ	45.000	ug/kg	C	UJ	43.000	ug/kg	C	UJ
Aroclor-1248	39.000	ug/kg	C	UJ	45.000	ug/kg	C	UJ	43.000	ug/kg	C	UJ
Aroclor-1254	39.000	ug/kg	C	UJ	45.000	ug/kg	C	UJ	43.000	ug/kg	C	UJ
Aroclor-1260	39.000	ug/kg	C	UJ	45.000	ug/kg	C	UJ	43.000	ug/kg	C	UJ
Dieldrin	3.900	ug/kg	C	UJ	4.500	ug/kg	C	UJ	4.300	ug/kg	C	UJ
Endosulfan II	3.900	ug/kg	C	UJ	4.500	ug/kg	C	UJ	4.300	ug/kg	C	UJ
Endosulfan sulfate	3.900	ug/kg	C	UJ	4.500	ug/kg	C	UJ	4.300	ug/kg	C	UJ
Endosulfan-I	2.000	ug/kg	C	UJ	2.300	ug/kg	C	UJ	2.200	ug/kg	C	UJ
Endrin	3.900	ug/kg	C	UJ	4.500	ug/kg	C	UJ	4.300	ug/kg	C	UJ
Endrin aldehyde	3.900	ug/kg	C	UJ	4.500	ug/kg	C	UJ	4.300	ug/kg	C	UJ
Endrin ketone	3.900	ug/kg	C	UJ	4.500	ug/kg	C	UJ	4.300	ug/kg	C	UJ
Heptachlor	2.000	ug/kg	C	UJ	2.300	ug/kg	C	UJ	2.200	ug/kg	C	UJ
Heptachlor epoxide	2.000	ug/kg	C	UJ	2.300	ug/kg	C	UJ	2.200	ug/kg	C	UJ
Methoxychlor	20.000	ug/kg	C	UJ	23.000	ug/kg	C	UJ	22.000	ug/kg	C	UJ
Toxaphene	200.000	ug/kg	C	UJ	230.000	ug/kg	C	UJ	220.000	ug/kg	C	UJ
alpha-BHC	2.000	ug/kg	C	UJ	2.300	ug/kg	C	UJ	2.200	ug/kg	C	UJ
alpha-Chlordane	2.000	ug/kg	C	UJ	2.300	ug/kg	C	UJ	2.200	ug/kg	C	UJ
beta-BHC	2.000	ug/kg	C	UJ	2.300	ug/kg	C	UJ	2.200	ug/kg	C	UJ
delta-BHC	2.000	ug/kg	C	UJ	2.300	ug/kg	C	UJ	2.200	ug/kg	C	UJ
gamma-BHC (Lindane)	2.000	ug/kg	C	UJ	2.300	ug/kg	C	UJ	2.200	ug/kg	C	UJ
gamma-Chlordane	2.000	ug/kg	C	UJ	2.300	ug/kg	C	UJ	2.200	ug/kg	C	UJ

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE CHEMICAL PARAMETERS	RESULTS SWL-SS-11 111310 0-0.5 04/02/93	UNITS L VQ mg/kg C UJ	RESULTS SWL-SS-12 111312 0-0.5 04/02/93	UNITS L VQ mg/kg C UJ	RESULTS SWL-SS-08 111492 0-0.5 04/19/93	UNITS L VQ mg/kg C UJ
<u>Inorganics</u>						
Aluminum	8030.000	mg/kg C J	9870.000	mg/kg C J	10000.000	mg/kg C -
Antimony	1.000	mg/kg C UJ	0.850	mg/kg C UJ	0.890	mg/kg C UJ
Arsenic	5.500	mg/kg C -	4.400	mg/kg C -	6.300	mg/kg C UJ
Barium	60.700	mg/kg C -	80.900	mg/kg C -	98.700	mg/kg C -
Beryllium	0.460	mg/kg C -	0.630	mg/kg C -	0.460	mg/kg C -
Cadmium	1.000	mg/kg C -	0.850	mg/kg C -	0.890	mg/kg C UJ
Calcium	81200.000	mg/kg C -	25500.000	mg/kg C -	79400.000	mg/kg C -
Chromium	10.500	mg/kg C -	11.400	mg/kg C -	12.200	mg/kg C -
Cobalt	4.000	mg/kg C -	8.500	mg/kg C -	6.600	mg/kg C -
Copper	15.400	mg/kg C -	15.400	mg/kg C -	32.200	mg/kg C -
Cyanide	0.120	mg/kg C -	0.120	mg/kg C -	0.120	mg/kg C UJ
Iron	15400.000	mg/kg C -	16600.000	mg/kg C -	16800.000	mg/kg C -
Lead	3.200	mg/kg C -	5.100	mg/kg C -	11.900	mg/kg C -
Magnesium	29800.000	mg/kg C -	8280.000	mg/kg C -	21100.000	mg/kg C -
Manganese	366.000	mg/kg C -	705.000	mg/kg C -	533.000	mg/kg C UJ
Mercury	0.110	mg/kg C -	0.110	mg/kg C -	0.120	mg/kg C UJ
Molybdenum	4.600	mg/kg C -	5.000	mg/kg C -	4.900	mg/kg C -
Nickel	12.200	mg/kg C -	15.600	mg/kg C -	15.400	mg/kg C -
Potassium	924.000	mg/kg C UJ	944.000	mg/kg C -	1100.000	mg/kg C -
Selenium	0.340	mg/kg C UJ	0.420	mg/kg C -	0.470	mg/kg C UJ
Silicon	592.000	mg/kg C -	604.000	mg/kg C -	573.000	mg/kg C -
Silver	4.400	mg/kg C -	4.900	mg/kg C -	4.300	mg/kg C -
Sodium	137.000	mg/kg C -	65.600	mg/kg C -	143.000	mg/kg C -
Thallium	0.340	mg/kg C -	0.400	mg/kg C -	0.470	mg/kg C UJ
Vanadium	21.500	mg/kg C -	27.500	mg/kg C -	24.800	mg/kg C -
Zinc	35.400	mg/kg C	40.300	mg/kg C	80.500	mg/kg C
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
1,1,2,2-Tetrachloroethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
1,1,2-Trichloroethane	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
1,1-Dichloroethane	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
1,1-Dichloroethene	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
1,2-Dichloroethane	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
1,2-Dichloroethene	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
1,2-Dichloropropane	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
2-Butanone	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
2-Hexanone	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
4-Methyl-2-pentanone	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
Acetone	5.000	ug/kg C U	12.000	ug/kg C UU	12.000	ug/kg C UU
Benzene	12.000	ug/kg C U	12.000	ug/kg C UU	12.000	ug/kg C UU

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3TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-11	SWL-SS-12	SWL-SS-08			
SAMPLE NUMBER	111310	111312	111492			
SAMPLING DATE	0-0.5 04/02/93	0-0.5 04/02/93	0-0.5 04/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromoform	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
Carbon Tetrachloride	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroform	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
Dibromochloromethane	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
Ethylbenzene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Methylene chloride	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Styrene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Toluene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Trichloroethene	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
Vinyl Acetate	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl chloride	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
Xylenes, Total	12.000	ug/kg C UU	12.000	ug/kg C UU	12.000	ug/kg C UU
cis-1,3-Dichloropropene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
1,2-Dichlorobenzene	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
1,3-Dichlorobenzene	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
1,4-Dichlorobenzene	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
2,4,5-Trichlorophenol	970.000	ug/kg C UU	1000.000	ug/kg C UU	980.000	ug/kg C UU
2,4,6-Trichlorophenol	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
2,4-Dichlorophenol	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
2,4-Dimethylphenol	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
2,4-Dinitrophenol	970.000	ug/kg C UU	1000.000	ug/kg C UU	2000.000	ug/kg C UU
2,4-Dinitrotoluene	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
2,6-Dinitrotoluene	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
2-Chloronaphthalene	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
2-Chlorophenol	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
2-Methylnaphthalene	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
2-Methylphenol	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
2-Nitroaniline	970.000	ug/kg C UU	1000.000	ug/kg C UU	980.000	ug/kg C UU
2-Nitrophenol	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU
3,3'-Dichlorobenzidine	400.000	ug/kg C UU	410.000	ug/kg C UU	400.000	ug/kg C UU

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-11	SWL-SS-12	SWL-SS-08			
SAMPLE NUMBER	111310	111312	111492			
SAMPLING DATE	0-0.5 04/02/93	0-0.5 04/02/93	0-0.5 04/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3-Nitroaniline	970.000	ug/kg C UJ	1000.000	ug/kg C UJ	980.000	ug/kg C U
4,6-Dinitro-2-methylphenol	970.000	ug/kg C UJ	1000.000	ug/kg C UJ	980.000	ug/kg C U
4-Bromophenyl phenyl ether	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
4-Chloro-3-methylphenol	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
4-Chlorophenylphenyl ether	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
4-Methylphenol	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
4-Nitroaniline	970.000	ug/kg C UJ	1000.000	ug/kg C UJ	980.000	ug/kg C U
4-Nitrophenol	970.000	ug/kg C UJ	1000.000	ug/kg C UJ	980.000	ug/kg C UJ
Acenaphthene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Acenaphthylene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Anthracene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Benzo(a)anthracene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	79.000	ug/kg C JJ
Benzo(a)pyrene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	67.000	ug/kg C JJ
Benzo(b)fluoranthene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	64.000	ug/kg C JJ
Benzo(g,h,i)perylene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Benzo(k)fluoranthene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	75.000	ug/kg C J
Benzoic acid	1900.000	ug/kg C UJ	2000.000	ug/kg C UJ	2000.000	ug/kg C UJ
Benzyl alcohol	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Butyl benzyl phthalate	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Carbazole	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Chrysene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	94.000	ug/kg C J
Di-n-butyl phthalate	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Di-n-octyl phthalate	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C UJ
Dibenzo(a,h)anthracene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Dibenzofuran	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Diethyl phthalate	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Dimethyl phthalate	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Fluoranthene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	200.000	ug/kg C J
Fluorene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Hexachlorobenzene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Hexachlorobutadiene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Hexachlorocyclopentadiene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C UJ
Hexachloroethane	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	46.000	ug/kg C J
Isophorone	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
N-Nitroso-di-n-propylamine	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
N-Nitrosodiphenylamine	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Naphthalene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Nitrobenzene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
Pentachlorophenol	970.000	ug/kg C UJ	1000.000	ug/kg C UJ	980.000	ug/kg C U
Phenanthrene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	120.000	ug/kg C J
Phenol	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U

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TABLE C-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SS-11	SWL-SS-12	SWL-SS-08			
SAMPLE NUMBER	111310	111312	111492			
SAMPLING DATE	0-0.5 04/02/93	0-0.5 04/02/93	0-0.5 04/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	400.000	ug/kg C UJ	410.000	ug/kg C UJ	170.000	ug/kg C J
bis(2-Chloroethoxy)methane	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C UJ
bis(2-Chloroethyl)ether	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C UJ
bis(2-Chloroisopropyl) ether	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C UJ
bis(2-Ethylhexyl) phthalate	43.000	ug/kg C J	410.000	ug/kg C UJ	400.000	ug/kg C U
p-Chloroaniline	400.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.000	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C U
4,4'-DDE	4.000	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C U
4,4'-DDT	4.000	ug/kg C UJ	4.100	ug/kg C UJ	4.100	ug/kg C U
Aldrin	2.100	ug/kg C UJ	2.100	ug/kg C UJ	2.100	ug/kg C UJ
Aroclor-1016	40.000	ug/kg C UU	41.000	ug/kg C UU	41.000	ug/kg C UU
Aroclor-1221	82.000	ug/kg C UU	83.000	ug/kg C UU	83.000	ug/kg C UU
Aroclor-1232	40.000	ug/kg C UU	41.000	ug/kg C UU	41.000	ug/kg C UU
Aroclor-1242	40.000	ug/kg C UU	41.000	ug/kg C UU	41.000	ug/kg C UU
Aroclor-1248	40.000	ug/kg C UU	41.000	ug/kg C UU	41.000	ug/kg C UU
Aroclor-1254	40.000	ug/kg C UU	41.000	ug/kg C UU	41.000	ug/kg C UU
Aroclor-1260	40.000	ug/kg C UU	41.000	ug/kg C UU	41.000	ug/kg C UU
Dieldrin	4.000	ug/kg C UU	4.100	ug/kg C UU	4.100	ug/kg C UU
Endosulfan II	4.000	ug/kg C UU	4.100	ug/kg C UU	4.100	ug/kg C UU
Endosulfan sulfate	4.000	ug/kg C UU	4.100	ug/kg C UU	4.100	ug/kg C UU
Endosulfan-I	2.100	ug/kg C UU	2.100	ug/kg C UU	2.100	ug/kg C UU
Endrin	4.000	ug/kg C UU	4.100	ug/kg C UU	4.100	ug/kg C UU
Endrin aldehyde	4.000	ug/kg C UU	4.100	ug/kg C UU	4.100	ug/kg C UU
Endrin ketone	4.000	ug/kg C UU	4.100	ug/kg C UU	4.100	ug/kg C UU
Heptachlor	2.100	ug/kg C UU	2.100	ug/kg C UU	2.100	ug/kg C UU
Heptachlor epoxide	2.100	ug/kg C UU	2.100	ug/kg C UU	2.100	ug/kg C UU
Methoxychlor	21.000	ug/kg C UU	21.000	ug/kg C UU	21.000	ug/kg C UU
Toxaphene	210.000	ug/kg C UU	210.000	ug/kg C UU	210.000	ug/kg C UU
alpha-BHC	2.100	ug/kg C UU	2.100	ug/kg C UU	2.100	ug/kg C UU
alpha-Chlordane	2.100	ug/kg C UU	2.100	ug/kg C UU	2.100	ug/kg C UU
beta-BHC	2.100	ug/kg C UU	2.100	ug/kg C UU	2.100	ug/kg C UU
delta-BHC	2.100	ug/kg C UU	2.100	ug/kg C UU	2.100	ug/kg C UU
gamma-BHC (Lindane)	2.100	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
gamma-Chlordane	2.100	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U

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TABLE C-3B
SOLID WASTE LANDFILL
TENTATIVELY IDENTIFIED COMPOUNDS
SURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
111309	SWL-SS-10	2-propanol	18	ug/kg
111293	SWL-SS-01	2-cyclohexen-1-one	97	ug/kg
111298	SWL-SS-03	2-cyclohexen-1-one	88	ug/kg
111301	SWL-SS-05	limone	170	ug/kg
111309	SWL-SS-10	limone	490	ug/kg
111492	SWL-SS-08	octane, 2-methyl	260	ug/kg
111492	SWL-SS-08	octane, 3-methyl	210	ug/kg
111492	SWL-SS-08	2-hexanone, 6-(acetyloxy)	1900	ug/kg
111492	SWL-SS-08	3-hexen-2-one, 5-methyl-	690	ug/kg
111492	SWL-SS-08	2h-pyran-2,3-diol, tetrahydr	2700	ug/kg
111492	SWL-SS-08	1-hepten-1-ol, acetate	200	ug/kg
111492	SWL-SS-08	9,12,15-octadecatriene-1-ol	130	ug/kg
111492	SWL-SS-08	hexanedioic acid, dioctyl est	9600	ug/kg
111492	SWL-SS-08	octadecane, 9-ethyl-9-heptyl	93	ug/kg

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TABLE C-4
SOLID WASTE LANDFILL
CIS SURFACE SOIL RADIOLOGICAL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

FEMP ID #	SL46238		
Depth	6-12"		
Date	03/09/87		
			Validation Qualifier
	Isotope	Activity (pCi/g)	Uncertainty
	Cesium-137	0.31	NA
	Lead-210		NA
	Neptunium-237	0.34	NA
	Plutonium-239/240	0.09	NA
	Plutonium-238	0.09	NA
	Radium-226		
	Radium-228		
	Ruthenium-106	2.38	NA
	Strontium-90	0.30	NA
	Technetium-99	0.9	NA
	Thorium-228	1.29	±0.29
	Thorium-232	1.05	±0.25
	Thorium-230	8.91	±0.70
	Uranium-238	330	±4.59
	Uranium-234	183	±3.42
	Uranium-235	16.7	±1.03

^aLaboratory qualifier, data validation could not be performed

^bNot Applicable

^c< = Less than

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TABLE C-5
SOLID WASTE LANDFILL
SURFACE MEDIA ENVIRONMENTAL SURVEY
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Analyte (units)	FE0620SS	FE0621SS	FE0622SS	FE0623SS
Asbestos	ND	ND	ND	ND
RADIONUCLIDES (pCi/g)				
Bismuth-214	0.88±0.4	2.2±0.1	0.83±0.09	0.69±0.03
Cesium-137	I	I	I	I
Radium-226	0.87±0.04	2.1±0.1(G)	0.83±0.07(G)	0.6±0.03(G)
Thorium-228	1.0±0.1(G)	1.6±0.1(G)	1.3±0.1(G)	0.71±0.05(G)
Thorium-232	1.1±0.1(G)	1.2±0.1(G)	1.1±0.2(G)	0.8±0.7(G)
Uranium-235	0.89±0.01	N	1.2±0.1	0.69±0.04
Uranium-238	64±4	N	48±6	I
Total Uranium (mg/kg)	149.0	66.0	112.0	11.0
TCLP METALS (mg/L)				
Lead	<0.3	<0.3	<0.3	<0.3
Selenium	<0.5	<0.5	<0.5	<0.5
VOLATILE ORGANIC COMPOUNDS (µg/kg)				
1,1-Dichloroethane	<5.0	<5.0	<5.0	NA
1,1,1-Trichloroethane	6.0	5.0	<5.0	NA
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	NA
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	NA
1,2-Dichloroethane	<5.0	<5.0	<5.0	NA
1,2-Dichloropropane	<5.0	<5.0	<5.0	NA
2-Butanone	<10.0	<10.0	<10.0	NA
2-Chloroethylvinyl Ether	<10.0	<10.0	<10.0	NA
2-Hexanone	<10.0	<10.0	<10.0	NA
4-Methyl-2-pentanone	<10.0	<10.0	<10.0	NA
Acetone	21.0(B)	12.0(B)	27.0(B)	NA
Benzene	<5.0	<5.0	<5.0	NA
Bromodichloromethane	<5.0	<5.0	<5.0	NA
Bromoform	<5.0	<5.0	<5.0	NA
Bromomethane	<10.0	<10.0	<10.0	NA
Carbon tetrachloride	<5.0	<5.0	<5.0	NA
Carbon disulfide	<5.0	<5.0	<5.0	NA
Chlorobenzene	<5.0	<5.0	<5.0	NA
Chloroethane	<10.0	<10.0	<10.0	NA
Chloroform	9.0	13.0	12.0	NA
Chloromethane	<10.0	<10.0	<10.0	NA
Cis-1,3-dichloropropene	<5.0	<5.0	<5.0	NA
Dibromochloromethane	<5.0	<5.0	<5.0	NA
Ethyl benzene	<5.0	<5.0	<5.0	NA

See notes at end of table

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TABLE C-5
(Continued)

Analyte (units)	FE0620SS	FE0621SS	FE0622SS	FE0623SS
Volatile Organic Compounds ($\mu\text{g}/\text{kg}$) (Continued)				
Methylene chloride	16.0(B)	10.0(B)	8.0(B)	NA
Styrene	<5.0	<5.0	<5.0	NA
Tetrachloroethene	<5.0	<5.0	<5.0	NA
Toluene	3.0(BJ)	4.0(BJ)	4.0(BJ)	NA
Total Xylenes	<5.0	<5.0	<5.0	NA
Trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	NA
Trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	NA
Trichloroethene	<5.0	<5.0	<5.0	NA
Vinyl Chloride	<10.0	<10.0	<10.0	NA
Vinyl Acetate	<10.0	<10.0	<10.0	NA
PCBs (mg/kg)				
Aroclor-1242	<0.3	<0.3	<0.3	<0.3
Aroclor-1248	<0.4	<0.4	<0.4	<0.4
Aroclor-1254	<0.2	<0.2	<0.2	<0.2
Aroclor-1260	<0.3	<0.3	<0.3	<0.3

NA = Not Analyzed

N = Nuclide not identified by GAMANAL analysis as being present in the sample; no value reported.

I = Nuclide identified by GAMANAL analysis of sample spectrum, but values did not exceed room background at the 95 % confidence level; no value reported.

B = Analyte was found in the blank as well as the sample.

J = Estimated value of compound present but less than the specified detection limit.

G = Gamma Spectroscopy Analysis.

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TABLE C-6A
SOLID WASTE LANDFILL
RI/FS SUBSURFACE SOIL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1035	SAMPLE NUMBER	008388	RESULTS	1718	RESULTS	1718		
SAMPLING DATE	21 - 22.5 03/21/88	UNITS	pc ⁱ /g	UNITS	067266	UNITS	067275		
RADIOLOGICAL PARAMETERS	VQ	VQ	VQ	VQ	1.5 - 3	9 - 10.5	08/01/91		
CS-137	0.200	pc ⁱ /g	UJ	0.200	pc ⁱ /g	UJ	0.200	pc ⁱ /g	UJ
NP-237	0.600	pc ⁱ /g	U	0.600	pc ⁱ /g	UJ	0.600	pc ⁱ /g	UJ
PU-238	0.600	pc ⁱ /g	U	0.600	pc ⁱ /g	UJ	0.600	pc ⁱ /g	UJ
PU-239/240	0.600	pc ⁱ /g	U	0.600	pc ⁱ /g	U	0.600	pc ⁱ /g	U
RA-226	0.800	pc ⁱ /g	J	1.410	pc ⁱ /g	J	1.150	pc ⁱ /g	J
RA-228	0.600	pc ⁱ /g	J	3.150	pc ⁱ /g	J	1.130	pc ⁱ /g	J
RU-106	1.000	pc ⁱ /g	J	1.000	pc ⁱ /g	UJ	1.000	pc ⁱ /g	UJ
SR-90	0.500	pc ⁱ /g	J	0.720	pc ⁱ /g	R	0.850	pc ⁱ /g	R
TC-99	0.900	pc ⁱ /g	J	0.900	pc ⁱ /g	U	0.900	pc ⁱ /g	U
TH-228	0.800	pc ⁱ /g	J	3.390	pc ⁱ /g	J	2.290	pc ⁱ /g	J
TH-230	1.100	pc ⁱ /g	J	2.300	pc ⁱ /g	J	1.740	pc ⁱ /g	J
TH-232	0.700	pc ⁱ /g	J	2.220	pc ⁱ /g	-	1.250	pc ⁱ /g	-
TH-TOTAL	NA			20.000	mg/kg	-	11.300	mg/kg	-
U-234	5.200	pc ⁱ /g	-	23.300	pc ⁱ /g	J	8.700	pc ⁱ /g	J
U-235/236	0.600	pc ⁱ /g	-	1.650	pc ⁱ /g	J	1.130	pc ⁱ /g	J
U-238	18.100	pc ⁱ /g	-	22.100	pc ⁱ /g	-	40.800	pc ⁱ /g	-
U-TOTAL	NA			67.200	mg/kg	J	124.000	mg/kg	J

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TABLE C-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1718	1719	1719
SAMPLE NUMBER	067279	067286	067292
SAMPLING DATE	15 - 16.5 08/01/91	1.5 - 3 08/07/91	10.5 - 12 08/07/91
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	UJ
RA-226	1.030	pCi/g	UJ
RA-228	0.780	pCi/g	UJ
RU-106	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	UJ
TC-99	0.900	pCi/g	UJ
TH-228	0.960	pCi/g	UJ
TH-230	0.690	pCi/g	UJ
TH-232	0.600	pCi/g	UJ
TH-TOTAL	3.960	mg/kg	UJ
U-234	0.890	pCi/g	UJ
U-235/236	0.600	pCi/g	UJ
U-238	1.110	pCi/g	UJ
U-TOTAL	3.050	mg/kg	UJ

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TABLE C-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1719	1720	1720
SAMPLE NUMBER	067296	067306	067310
SAMPLING DATE	16.5 - 18 08/08/91	1.5 - 3 08/10/91	7.5 - 9 08/10/91
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	UJ
RA-226	0.380	pCi/g	UJ
RA-228	0.500	pCi/g	UJ
RU-106	1.000	pCi/g	UJ
SR-90	1.160	pCi/g	UJ
TC-99	0.900	pCi/g	UJ
TH-228	1.120	pCi/g	UJ
TH-230	1.150	pCi/g	UJ
TH-232	0.740	pCi/g	UJ
TH-TOTAL	6.660	mg/kg	UJ
U-234	0.910	pCi/g	UJ
U-235/236	0.600	pCi/g	UJ
U-238	1.590	pCi/g	UJ
U-TOTAL	19.700	mg/kg	J
	0.200	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	1.060	pCi/g	UJ
	1.350	pCi/g	UJ
	1.000	pCi/g	UJ
	1.580	pCi/g	UJ
	0.900	pCi/g	UJ
	2.100	pCi/g	UJ
	3.460	pCi/g	UJ
	1.400	pCi/g	UJ
	12.700	mg/kg	UJ
	18.500	pCi/g	UJ
	1.270	pCi/g	UJ
	45.200	pCi/g	UJ
	150.000	mg/kg	J
	0.200	pCi/g	UJ
	0.600	pCi/g	UJ
	0.600	pCi/g	UJ
	1.010	pCi/g	UJ
	1.070	pCi/g	UJ
	1.000	pCi/g	UJ
	3.090	pCi/g	UJ
	0.900	pCi/g	UJ
	1.170	pCi/g	UJ
	2.510	pCi/g	UJ
	0.740	pCi/g	UJ
	6.660	mg/kg	UJ
	1.350	pCi/g	UJ
	0.600	pCi/g	UJ
	3.540	pCi/g	UJ
	13.000	mg/kg	J

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TABLE C-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1720	1721	1721
SAMPLE NUMBER	067313	067230	067233
SAMPLING DATE	9 - 10.5	3 - 4.5	7.5 - 9
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ
GROSS ALPHA	NA		
GROSS BETA	NA		
NP-237	0.600	pCi/g	U
PB-210	NA		
PU-238	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	UJ
RA-224	NA		
RA-226	1.550	pCi/g	J
RA-228	1.480	pCi/g	J
RU-106	1.000	pCi/g	UJ
SR-90	0.900	pCi/g	J
TC-99	0.900	pCi/g	J
TH-228	2.020	pCi/g	J
TH-230	1.890	pCi/g	J
TH-232	1.060	pCi/g	R
TH-TOTAL	9.570	mg/kg	R
U-234	1.240	pCi/g	J
U-235	NA		
U-235/236	0.600	pCi/g	UJ
U-238	1.810	pCi/g	-
U-TOTAL	5.830	mg/kg	J
	0.200	pCi/g	U
	NA		
	0.600	pCi/g	UJ
	NA		
	0.600	pCi/g	UJ
	0.600	pCi/g	U
	NA		
	0.890	pCi/g	J
	0.670	pCi/g	
	1.000	pCi/g	
	0.800	pCi/g	
	0.900	pCi/g	
	1.570	pCi/g	
	1.370	pCi/g	
	0.711	pCi/g	
	6.420	mg/kg	
	1.390	pCi/g	
	NA		
	0.600	pCi/g	UJ
	2.330	pCi/g	
	6.700	mg/kg	
	0.600	pCi/g	
	3.000	pCi/g	
	8.900	mg/kg	

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TABLE C-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1721	SAMPLE NUMBER	067238	SAMPLING DATE	15 - 16.5 07/28/91	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	
RADIOLOGICAL PARAMETERS															
CS-137	0.200	pci/g	U		0.200	pci/g	UJ		0.200	pci/g	U		0.200	pci/g	U
GROSS ALPHA	NA				NA				23.100	pci/g	NV				
GROSS BETA	NA				NA				29.400	pci/g	NV				
NP-237	0.600	pci/g	UJ		NA				0.600	pci/g	UJ				
PB-210	NA				NA				0.680	pci/g	-				
PU-238	0.600	pci/g	UJ		NA				0.600	pci/g	U				
PU-239/240	0.600	pci/g	U		NA				0.600	pci/g	U				
RA-224	NA				NA				1.490	pci/g	-				
RA-226	0.980	pci/g	J		1.500	pci/g	J		1.010	pci/g	-				
RA-228	0.680	pci/g	J		1.030	pci/g	J		1.320	pci/g	-				
RU-106	1.000	pci/g	U		1.000	pci/g	UJ		1.000	pci/g	D				
SR-90	0.730	pci/g	J		0.500	pci/g	UJ		1.420	pci/g	-				
TC-99	0.900	pci/g	U		NA				0.900	pci/g	U				
TH-228	1.400	pci/g	J		1.610	pci/g	J		1.090	pci/g	J				
TH-230	1.740	pci/g	J		12.300	pci/g	J		2.400	pci/g	J				
TH-232	0.931	pci/g	-		1.000	pci/g	U		1.200	pci/g	J				
TH-TOTAL	8.400	mg/kg	-		8.990	mg/kg	-		10.800	mg/kg	J				
U-234	1.760	pci/g	J		334.000	pci/g	J		4.510	pci/g	-				
U-235	NA				NA				0.400	pci/g	U				
U-235/236	0.126	pci/g	J		22.400	pci/g	J		0.600	pci/g	U				
U-238	3.610	pci/g	-		420.000	pci/g	-		6.530	pci/g	-				
U-TOTAL	11.200	mg/kg	-		940.000	mg/kg	J		17.500	mg/kg	J				

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TABLE C-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1722	1808	1808
SAMPLE NUMBER	067258	067393	067398
SAMPLING DATE	12.5 - 14 07/30/91	1.5 - 3 08/27/91	10.5 - 12 08/27/91
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	U
GROSS ALPHA	76.600	pCi/g	NV
GROSS BETA	83.800	pCi/g	NV
NP-237	0.600	pCi/g	J
PB-210	0.400	pCi/g	J
PU-238	0.600	pCi/g	J
PU-239/240	0.600	pCi/g	J
RA-224	1.110	pCi/g	-
RA-226	0.870	pCi/g	-
RA-228	0.980	pCi/g	-
RU-106	1.200	pCi/g	J
SR-90	0.900	pCi/g	J
TC-99	0.900	pCi/g	J
TH-228	0.960	pCi/g	J
TH-230	3.810	pCi/g	J
TH-232	0.850	pCi/g	-
TH-TOTAL	2.650	mg/kg	-
U-234	30.600	pCi/g	-
U-235	1.890	pCi/g	J
U-235/236	2.470	pCi/g	-
U-238	47.700	pCi/g	-
U-TOTAL	146.000	mg/kg	-

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TABLE C-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1808		1888		3037				
SAMPLE NUMBER	067400		067718		007968				
SAMPLING DATE	13.5 - 15 08/27/91		6 - 7.5 02/23/92		22.5 - 24 01/20/88				
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.200	pc ⁱ /g	UJ	0.200	pc ⁱ /g	UJ	0.200	pc ⁱ /g	UJ
GROSS ALPHA	NA			31.700	pc ⁱ /g	NV	NA	pc ⁱ /g	
GROSS BETA	NA			27.200	pc ⁱ /g	NV	NA	pc ⁱ /g	
NP-237	0.600	pc ⁱ /g	UJ	NA			0.600	pc ⁱ /g	UJ
PB-210	NA			1.030	pc ⁱ /g	J	NA	pc ⁱ /g	
PU-238	0.600	pc ⁱ /g	UJ	0.600	pc ⁱ /g	U	0.600	pc ⁱ /g	U
PU-239/240	0.600	pc ⁱ /g	U	0.600	pc ⁱ /g	U	0.600	pc ⁱ /g	U
RA-224	NA			2.140	pc ⁱ /g	J	NA	pc ⁱ /g	
RA-226	0.680	pc ⁱ /g	J	1.120	pc ⁱ /g	J	0.600	pc ⁱ /g	J
RA-228	0.600	pc ⁱ /g	J	1.570	pc ⁱ /g	J	0.600	pc ⁱ /g	J
RU-106	1.000	pc ⁱ /g	UJ	1.300	pc ⁱ /g	D	1.000	pc ⁱ /g	UJ
SR-90	0.500	pc ⁱ /g	UJ	1.010	pc ⁱ /g	-	0.500	pc ⁱ /g	
TC-99	0.900	pc ⁱ /g	U	0.900	pc ⁱ /g	UJ	2.500	pc ⁱ /g	R
TH-228	1.170	pc ⁱ /g	J	1.370	pc ⁱ /g	-	1.200	pc ⁱ /g	-
TH-230	1.920	pc ⁱ /g	J	2.300	pc ⁱ /g	-	1.300	pc ⁱ /g	-
TH-232	0.600	pc ⁱ /g	U	1.580	pc ⁱ /g	-	0.600	pc ⁱ /g	U
TH-TOTAL	5.080	mg/kg	-	14.300	mg/kg	-	NA	pc ⁱ /g	
U-234	0.924	pc ⁱ /g	J	4.100	pc ⁱ /g	-	0.600	pc ⁱ /g	UJ
U-235	NA			0.270	pc ⁱ /g	J	NA	pc ⁱ /g	
U-235/236	0.600	pc ⁱ /g	UJ	0.600	pc ⁱ /g	U	0.600	pc ⁱ /g	UJ
U-238	1.080	pc ⁱ /g	-	5.300	pc ⁱ /g	-	0.900	pc ⁱ /g	J
U-TOTAL	3.210	mg/kg	J	19.000	mg/kg	J	NA	pc ⁱ /g	

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TABLE C-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	3037	3037				
SAMPLE NUMBER	008107	008117				
SAMPLING DATE	45 - 46.5 01/22/88	95 - 96.5 01/25/88				
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.200	pCi/g	UJ	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	UJ	0.600	pCi/g	UJ
PU-238	0.600	pCi/g	UJ	0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	UJ	0.600	pCi/g	UJ
RA-226	0.300	pCi/g	UJ	0.300	pCi/g	UJ
RA-228	0.600	pCi/g	UJ	0.600	pCi/g	UJ
RU-106	1.000	pCi/g	UJ	1.000	pCi/g	UJ
SR-90	0.500	pCi/g	UJ	0.500	pCi/g	UJ
TC-99	2.900	pCi/g	R	2.500	pCi/g	AN
TH-228	0.700	pCi/g	UJ	0.600	pCi/g	UJ
TH-230	0.600	pCi/g	UJ	0.700	pCi/g	UJ
TH-232	0.600	pCi/g	UJ	0.600	pCi/g	UJ
U-234	0.600	pCi/g	UJ	0.600	pCi/g	UJ
U-235/236	0.600	pCi/g	UJ	0.600	pCi/g	UJ
U-238	0.600	pCi/g	UJ	0.600	pCi/g	UJ

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1718	1718	1718			
SAMPLE NUMBER	067267	067271	067278			
SAMPLING DATE	3-4-5 07/31/91	7-5-9 07/31/91	13-5-15 08/01/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Dioxin Furan						
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.130	ug/kg E U	0.038	ug/kg E U	0.022	ug/kg E U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.019	ug/kg E U	0.012	ug/kg E U	0.043	ug/kg E U
1,2,3,4,7,8,9-Heptachlorodibenzo-p-dioxin	0.024	ug/kg E U	0.015	ug/kg E U	0.055	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.018	ug/kg E U	0.180	ug/kg E U	0.300	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenzofuran	0.029	ug/kg E U	0.023	ug/kg E U	0.032	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.014	ug/kg E U	0.140	ug/kg E U	0.240	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenzofuran	0.027	ug/kg E U	0.022	ug/kg E U	0.030	ug/kg E U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.015	ug/kg E U	0.150	ug/kg E U	0.250	ug/kg E U
1,2,3,7,8,9-Hexachlorodibenzofuran	0.034	ug/kg E U	0.027	ug/kg E U	0.037	ug/kg E U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.170	ug/kg E U	0.250	ug/kg E U	0.067	ug/kg E U
1,2,3,7,8-Pentachlorodibenzofuran	0.037	ug/kg E U	0.160	ug/kg E U	0.031	ug/kg E U
2,3,4,6,7,8-Hexachlorodibenzo-furan	0.034	ug/kg E U	0.027	ug/kg E U	0.037	ug/kg E U
2,3,4,7,8-Pentachlorodibenzo-furan	0.036	ug/kg E U	0.160	ug/kg E U	0.030	ug/kg E U
2,3,7,8-TCDD	0.210	ug/kg E U	0.190	ug/kg E U	0.130	ug/kg E U
2,3,7,8-TCDF	0.310	ug/kg E U	0.310	ug/kg E U	0.120	ug/kg E U
Heptachlorodibenzo-p-dioxin	0.130	ug/kg E U	0.038	ug/kg E U	0.022	ug/kg E U
Heptachlorodibenzofuran	0.021	ug/kg E U	0.013	ug/kg E U	0.048	ug/kg E U
Hexachlorodibenzo-p-dioxin	0.016	ug/kg E U	0.160	ug/kg E U	0.260	ug/kg E U
Hexachlorodibenzofuran	0.031	ug/kg E U	0.024	ug/kg E U	0.034	ug/kg E U
Octachlorodibenzo-p-dioxin	13.700	ug/kg E J	0.440	ug/kg E J	0.110	ug/kg E U
Octachlorodibenzofuran	0.100	ug/kg E U	0.170	ug/kg E U	0.020	ug/kg E U
Pentachlorodibenzo-p-dioxin	0.170	ug/kg E U	0.250	ug/kg E U	0.067	ug/kg E U
Pentachlorodibenzofuran	0.037	ug/kg E U	0.160	ug/kg E U	0.031	ug/kg E U
Tetrachlorodibenzo-p-dioxin	0.051	ug/kg E U	0.072	ug/kg E U	0.040	ug/kg E U
Tetrachlorodibenzofuran	0.068	ug/kg E U	0.059	ug/kg E U	0.025	ug/kg E U

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1719	1719	1719
SAMPLE NUMBER	067287	067295	067300
SAMPLING DATE	3-4-5 08/07/91	15-16.5 08/08/91	18-19.5 08/08/91
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Inorganics</u>			
Aluminum	1920.000	mg/kg	D -
Antimony	4.200	mg/kg	D -
Arsenic	4.400	mg/kg	D -
Barium	16.700	mg/kg	D -
Beryllium	0.190	mg/kg	D -
Boron	7.200	mg/kg	D -
Cadmium	0.640	mg/kg	D -
Calcium	18600.000	mg/kg	D -
Chromium	6.300	mg/kg	D -
Cobalt	2.400	mg/kg	D -
Copper	4.200	mg/kg	D -
Cyanide	0.110	mg/kg	D -
Iron	3350.000	mg/kg	D -
Lead	14.200	mg/kg	D -
Magnesium	4240.000	mg/kg	D -
Manganese	130.000	mg/kg	D -
Mercury	0.100	mg/kg	D -
Molybdenum	2.900	mg/kg	D -
Nickel	4.400	mg/kg	D -
Potassium	891.000	mg/kg	D -
Selenium	0.420	mg/kg	D -
Silicon	234.000	mg/kg	D -
Silver	3.300	mg/kg	D -
Sodium	53.900	mg/kg	D -
Thallium	0.420	mg/kg	D UJ
Tin	NA		
Vanadium	6.700	mg/kg	D -
Zinc	10.300	mg/kg	D -
<u>Volatile Organics</u>			
1,1,1,2-Tetrachloroethane	NA		
1,1,1-Trichloroethane	6.000	ug/kg	D UJ
1,1,2,2-Tetrachloroethane	6.000	ug/kg	D UJ
1,1,2-Trichloroethane	6.000	ug/kg	D UJ
1,1-Dichloroethane	6.000	ug/kg	D UJ
1,1-Dichloroethene	6.000	ug/kg	D UJ
1,2,3-Trichloropropene	NA		
1,2-Dibromo-3-chloropropane	NA		
1,2-Dibromoethane	NA		
1,2-Dichloroethane	6.000	ug/kg	D J
1,2-Dichloroethene	6.000	ug/kg	D U

TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1719	1719	1719			
SAMPLE NUMBER	067287	067295	067300			
SAMPLING DATE	3-4.5 08/07/91	15-16.5 08/08/91	18-19.5 08/08/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
1,2-Dichloropropane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
1,4-Dioxane	NA		6310.000	ug/kg D R	NA	
2-Butanone	12.000	ug/kg D UJ	12.000	ug/kg D U	11.000	ug/kg D U
2-Chloro-1,3-butadiene	NA		6.310	ug/kg D U	NA	
2-Hexanone	12.000	ug/kg D UJ	1.000	ug/kg D U	11.000	ug/kg D UJ
3-Chloropropene	NA		6.310	ug/kg D U	NA	
4-Methyl-2-pentanone	12.000	ug/kg D UJ	1.000	ug/kg D U	11.000	ug/kg D UJ
Acetone	7.000	ug/kg D J	10.000	ug/kg D U	10.000	ug/kg D J
Acetonitrile	NA		1260.000	ug/kg D U	NA	
Acrolein	NA		12.600	ug/kg D U	NA	
Acrylonitrile	NA		12.600	ug/kg D U	NA	
Benzene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Bromodichloromethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Bromoform	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Bromomethane	12.000	ug/kg D U	12.000	ug/kg D U	11.000	ug/kg D U
Carbon Tetrachloride	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Carbon disulfide	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Chlorobenzene	2.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Chloroethane	12.000	ug/kg D U	12.000	ug/kg D U	11.000	ug/kg D U
Chloroform	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Chloromethane	12.000	ug/kg D U	12.000	ug/kg D U	11.000	ug/kg D U
Dibromochloromethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Dibromomethane	NA		12.600	ug/kg D U	NA	
Dichlorodifluoromethane	NA		253.000	ug/kg D R	NA	
Ethyl cyanide	NA		126.000	ug/kg D U	NA	
Ethyl methacrylate	NA		12.600	ug/kg D U	NA	
Ethylbenzene	6.000	ug/kg D U	18.000	ug/kg D U	5.000	ug/kg D U
Iodomethane	NA		6.310	ug/kg D U	NA	
Isobutyl alcohol	NA		25.300	ug/kg D R	NA	
Methacrylonitrile	NA		12.600	ug/kg D U	NA	
Methyl methacrylate	NA		12.600	ug/kg D U	NA	
Methylene chloride	6.000	ug/kg D U	7.000	ug/kg D U	8.000	ug/kg D U
Pyridine	NA		25.300	ug/kg D U	NA	
Styrene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Tetrachloroethene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Toluene	6.000	ug/kg D U	8.000	ug/kg D U	5.000	ug/kg D U
Trichloroethene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U
Trichlorofluoromethane	NA		840.000	ug/kg D U	NA	
Vinyl Acetate	12.000	ug/kg D UJ	12.000	ug/kg D U	11.000	ug/kg D UJ
Vinyl chloride	12.000	ug/kg D U	12.000	ug/kg D U	11.000	ug/kg D U
Xylenes, Total	6.000	ug/kg D U	100.000	ug/kg D U	5.000	ug/kg D U
cis-1,3-Dichloropropene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U

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TABLE C-6A
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PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1719	1719	1719	
SAMPLE NUMBER	067287	067295	067300	
SAMPLING DATE	3-4-5 08/07/91	15-16.5 08/08/91	18-19.5 08/08/91	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Volatile Organics</u>				
trans-1,3-Dichloropropene	6.000	ug/kg D U	6.000	ug/kg D U
trans-1,4-Dichloro-2-butene	NA		126.000	ug/kg D R
<u>Semivolatile Organics</u>				
1,2,4,5-Tetrachlorobenzene	NA		840.000	ug/kg D UJ
1,2,4-Trichlorobenzene	360.000	ug/kg D U	840.000	ug/kg D U
1,2-Dichlorobenzene	360.000	ug/kg D U	840.000	ug/kg D U
1,3,5-Trinitrobenzene	NA		840.000	ug/kg D U
1,3-Dichlorobenzene	360.000	ug/kg D U	840.000	ug/kg D U
1,3-Dinitrobenzene	NA		840.000	ug/kg D U
1,4-Dichlorobenzene	360.000	ug/kg D U	840.000	ug/kg D U
1,4-Naphthoquinone	NA		840.000	ug/kg D U
1-Naphthylamine	NA		10000.000	ug/kg D U
2,3,4,6-Tetrachlorophenol	NA		840.000	ug/kg D U
2,4,5-Trichlorophenol	1700.000	ug/kg D U	4100.000	ug/kg D U
2,4,6-Trichlorophenol	360.000	ug/kg D U	840.000	ug/kg D U
2,4-Dichlorophenol	360.000	ug/kg D U	840.000	ug/kg D U
2,4-Dimethylphenol	360.000	ug/kg D U	840.000	ug/kg D U
2,4-Dinitrophenol	1700.000	ug/kg D U	4100.000	ug/kg D U
2,4-Dinitrotoluene	360.000	ug/kg D U	840.000	ug/kg D U
2,6-Dichlorophenol	NA		840.000	ug/kg D U
2,6-Dinitrotoluene	360.000	ug/kg D U	840.000	ug/kg D U
2-Acetylaminofluorene	NA		840.000	ug/kg D U
2-Chloronaphthalene	360.000	ug/kg D U	840.000	ug/kg D U
2-Chlorophenol	330.000	ug/kg D U	840.000	ug/kg D U
2-Methylnaphthalene	93.000	ug/kg D J	840.000	ug/kg D U
2-Methylphenol	360.000	ug/kg D U	840.000	ug/kg D U
2-Naphthylamine	NA		15000.000	ug/kg D U
2-Nitroaniline	1700.000	ug/kg D U	4100.000	ug/kg D U
2-Nitrophenol	360.000	ug/kg D U	840.000	ug/kg D U
2-Picoline	NA		5900.000	ug/kg D U
3,3'-Dichlorobenzidine	720.000	ug/kg D UJ	1700.000	ug/kg D U
3,3'-Dimethylbenzidine	NA		6900.000	ug/kg D U
3-Methylcholanthrene	NA		2500.000	ug/kg D U
3-Methylphenol	NA		840.000	ug/kg D U
3-Nitroaniline	1700.000	ug/kg D U	4100.000	ug/kg D U
4,6-Dinitro-2-methylphenol	1700.000	ug/kg D U	4100.000	ug/kg D U
4-Aminobiphenyl	NA		4200.000	ug/kg D U
4-Bromophenyl phenyl ether	360.000	ug/kg D U	840.000	ug/kg D U
4-Chloro-3-methylphenol	360.000	ug/kg D U	840.000	ug/kg D U
4-Chlorophenylphenyl ether	360.000	ug/kg D U	840.000	ug/kg D U

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1719	1719	1719			
SAMPLE NUMBER	067287	067295	067300			
SAMPLING DATE	3-4.5 08/07/91	15-16.5 08/08/91	18-19.5 08/08/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4-Methylphenol	360.000	ug/kg D U	840.000	ug/kg D U	370.000	ug/kg D U
4-Nitroaniline	1700.000	ug/kg D UU	4100.000	ug/kg D UU	1800.000	ug/kg D UU
4-Nitrophenol	1700.000	ug/kg D UU	4100.000	ug/kg D UU	1800.000	ug/kg D UU
4-Nitroquinoline-1-oxide	NA		840.000	ug/kg D UJ	NA	
5-Nitro-o-toluidine	NA		1700.000	ug/kg D UU	NA	
7,12-Dimethylbenz(a)anthracene	NA		1700.000	ug/kg D UU	NA	
Acenaphthene	840.000	ug/kg D -	840.000	ug/kg D UU	370.000	ug/kg D U
Acenaphthylene	360.000	ug/kg D U	840.000	ug/kg D UU	370.000	ug/kg D U
Acetophenone	NA		840.000	ug/kg D UU	NA	
Aniline	NA		4300.000	ug/kg D UU	NA	
Anthracene	1000.000	ug/kg D -	130.000	ug/kg D J	370.000	ug/kg D U
Aramite	NA		840.000	ug/kg D UU	NA	
Benz(a)anthracene	7500.000	ug/kg D -	290.000	ug/kg D JJ	72.000	ug/kg D J
Benz(a)pyrene	8200.000	ug/kg D -	290.000	ug/kg D JJ	370.000	ug/kg D JJ
Benz(b)fluoranthene	15000.000	ug/kg D -	260.000	ug/kg D JJ	150.000	ug/kg D JJ
Benz(g,h,i)perylene	360.000	ug/kg D UU	300.000	ug/kg D UU	370.000	ug/kg D UU
Benz(k)fluoranthene	360.000	ug/kg D UU	300.000	ug/kg D UU	370.000	ug/kg D UU
Benzoic acid	1700.000	ug/kg D UU	110.000	ug/kg D J	1800.000	ug/kg D UU
Benzyl alcohol	360.000	ug/kg D UU	840.000	ug/kg D UU	370.000	ug/kg D UU
Butyl benzyl phthalate	360.000	ug/kg D UU	840.000	ug/kg D UU	370.000	ug/kg D UU
Chrysene	5600.000	ug/kg D -	370.000	ug/kg D UU	74.000	ug/kg D J
Di-n-butyl phthalate	360.000	ug/kg D UU	120.000	ug/kg D UU	370.000	ug/kg D UU
Di-n-octyl phthalate	360.000	ug/kg D UU	840.000	ug/kg D UU	370.000	ug/kg D UU
Diallate	NA		840.000	ug/kg D UU	NA	
Dibenz(a,h)anthracene	49.000	ug/kg D J	110.000	ug/kg D J	370.000	ug/kg D U
Dibenzofuran	340.000	ug/kg D JU	840.000	ug/kg D UU	370.000	ug/kg D UU
Diethyl phthalate	360.000	ug/kg D UU	840.000	ug/kg D UU	370.000	ug/kg D UU
Dimethyl phthalate	360.000	ug/kg D UU	840.000	ug/kg D UU	370.000	ug/kg D UU
Diphenylamine	NA		840.000	ug/kg D UJ	NA	
Ethyl methanesulfonate	NA		840.000	ug/kg D UU	NA	
Fluoranthene	12000.000	ug/kg D -	720.000	ug/kg D J	150.000	ug/kg D J
Fluorene	640.000	ug/kg D -	840.000	ug/kg D UU	370.000	ug/kg D UU
Hexachlorobenzene	360.000	ug/kg D UU	840.000	ug/kg D UU	370.000	ug/kg D UU
Hexachlorobutadiene	360.000	ug/kg D UU	840.000	ug/kg D UU	370.000	ug/kg D UU
Hexachlorocyclopentadiene	360.000	ug/kg D UU	840.000	ug/kg D UU	370.000	ug/kg D UU
Hexachloroethane	360.000	ug/kg D U	840.000	ug/kg D UU	370.000	ug/kg D UU
Hexachlorophene	NA		4300.000	ug/kg D UU	NA	
Hexachloropropene	NA		1700.000	ug/kg D R	NA	
Indeno(1,2,3-cd)pyrene	5500.000	ug/kg D -	210.000	ug/kg D J	370.000	ug/kg D U
Isophorone	360.000	ug/kg D U	840.000	ug/kg D UU	370.000	ug/kg D UU
Isosafrole	NA		840.000	ug/kg D UU	NA	
Methapyrilene	NA		3400.000	ug/kg D R	NA	

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1719	1719	1719
SAMPLE NUMBER	067287	067295	067300
SAMPLING DATE	3-4.5 08/07/91	15-16.5 08/08/91	18-19.5 08/08/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Methyl methanesulfonate	NA		840.000 ug/kg D UJ
Methyl parathion	100.000 ug/kg C U		100.000 ug/kg C U
N-Nitroso-di-n-propylamine	360.000 ug/kg D U		360.000 ug/kg D U
N-Nitrosodi-n-butylamine	NA		1700.000 ug/kg D U
N-Nitrosodiethylamine	NA		840.000 ug/kg D UJ
N-Nitrosodimethylamine	NA		840.000 ug/kg D U
N-Nitrosodiphenylamine	360.000 ug/kg D U		840.000 ug/kg D U
N-Nitrosomethylethylamine	NA		840.000 ug/kg D U
N-Nitrosomorpholine	NA		840.000 ug/kg D U
N-Nitrosopiperidine	NA		840.000 ug/kg D U
N-Nitrosopyrrolidine	NA		840.000 ug/kg D U
Naphthalene	140.000 ug/kg D J		840.000 ug/kg D U
Nitrobenzene	360.000 ug/kg D U		840.000 ug/kg D U
O,O,O-Triethylphosphorothioate	100.000 ug/kg D U		100.000 ug/kg D U
Parathion	100.000 ug/kg C U		100.000 ug/kg C U
Pentachlorobenzene	NA		1700.000 ug/kg D U
Pentachloroethane	NA		1700.000 ug/kg D U
Pentachloronitrobenzene	NA		1700.000 ug/kg D U
Pentachlorophenol	1700.000 ug/kg D U		4100.000 ug/kg D U
Phenacetin	NA		840.000 ug/kg D U
Phenanthrene	4800.000 ug/kg D -		620.000 ug/kg D U
Phenol	360.000 ug/kg D U		840.000 ug/kg D U
Pronamide	NA		2500.000 ug/kg D U
Pyrene	12000.000 ug/kg D -		610.000 ug/kg D U
Safrole	NA		840.000 ug/kg D U
Sulfotep	100.000 ug/kg C U		100.000 ug/kg C U
a,a-Dimethylphenethylamine	NA		840.000 ug/kg D U
bis(2-Chloroethoxy)methane	360.000 ug/kg D U		840.000 ug/kg D U
bis(2-Chloroethyl)ether	360.000 ug/kg D U		840.000 ug/kg D U
bis(2-Chloroisopropyl) ether	360.000 ug/kg D U		840.000 ug/kg D U
bis(2-Ethylhexyl) phthalate	360.000 ug/kg D U		1200.000 ug/kg D U
o-Tolidine	NA		840.000 ug/kg D U
p-Chloroaniline	360.000 ug/kg D U		840.000 ug/kg D U
p-Dimethylaminoazobenzene	NA		2500.000 ug/kg D U
p-Phenylenediamine	NA		4200.000 ug/kg D U
<u>Herbicide Organics</u>			
2,4,5-T	NA		49.000 ug/kg D U
2,4,5-TP (Silvex)	NA		45.000 ug/kg D U
2,4-D	NA		250.000 ug/kg D U
Dinoseb	NA		18.000 ug/kg D U

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1719	1719	1719			
SAMPLE NUMBER	067287	067295	067300			
SAMPLING DATE	3-4-5 08/07/91	15-16.5 08/08/91	18-19.5 08/08/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Pesticide Organics/PCBs						
4,4'-DDD	160.000	ug/kg D U	310.000	ug/kg D U	18.000	ug/kg D U
4,4'-DDE	160.000	ug/kg D U	310.000	ug/kg D U	18.000	ug/kg D U
4,4'-DDT	160.000	ug/kg D U	310.000	ug/kg D U	18.000	ug/kg D U
Aldrin	79.000	ug/kg D U	150.000	ug/kg D U	9.100	ug/kg D U
Aroclor-1016	790.000	ug/kg D U	1500.000	ug/kg D U	91.000	ug/kg D U
Aroclor-1221	790.000	ug/kg D U	1500.000	ug/kg D U	91.000	ug/kg D U
Aroclor-1232	790.000	ug/kg D U	1500.000	ug/kg D U	91.000	ug/kg D U
Aroclor-1242	790.000	ug/kg D U	1500.000	ug/kg D U	91.000	ug/kg D U
Aroclor-1248	790.000	ug/kg D U	1500.000	ug/kg D U	91.000	ug/kg D U
Aroclor-1254	1600.000	ug/kg D U	3100.000	ug/kg D U	180.000	ug/kg D U
Aroclor-1260	1600.000	ug/kg D U	3100.000	ug/kg D U	180.000	ug/kg D U
Azinphosmethyl	200.000	ug/kg C	200.000	ug/kg C	200.000	ug/kg C
Chlorobenzilate	NA		310.000	ug/kg D U	NA	
Demeton	200.000	ug/kg C U	200.000	ug/kg C	200.000	ug/kg C U
Diazinon	100.000	ug/kg C U	100.000	ug/kg C	100.000	ug/kg C U
Dieldrin	160.000	ug/kg D U	310.000	ug/kg D U	18.000	ug/kg D U
Dimethoate	100.000	ug/kg C U	100.000	ug/kg C	100.000	ug/kg C U
Disulfoton	100.000	ug/kg C U	100.000	ug/kg C	100.000	ug/kg C U
Endosulfan II	160.000	ug/kg D U	310.000	ug/kg D U	18.000	ug/kg D U
Endosulfan sulfate	160.000	ug/kg D U	310.000	ug/kg D U	18.000	ug/kg D U
Endosulfan-I	79.000	ug/kg D U	150.000	ug/kg D U	9.100	ug/kg D U
Endrin	160.000	ug/kg D U	310.000	ug/kg D U	18.000	ug/kg D U
Endrin ketone	160.000	ug/kg D U	310.000	ug/kg C	18.000	ug/kg D U
Ethion	100.000	ug/kg C U	100.000	ug/kg C	100.000	ug/kg C U
Famphur	100.000	ug/kg C U	100.000	ug/kg C	100.000	ug/kg C U
Heptachlor	79.000	ug/kg D U	150.000	ug/kg D U	9.100	ug/kg D U
Heptachlor epoxide	79.000	ug/kg D U	150.000	ug/kg D U	9.100	ug/kg D U
Isodrin	NA		150.000	ug/kg D U	NA	
Kepone	NA		310.000	ug/kg D U	NA	
Malathion	100.000	ug/kg C U	100.000	ug/kg C	100.000	ug/kg C U
Methoxychlor	790.000	ug/kg D U	1500.000	ug/kg D U	91.000	ug/kg D U
Phorate	100.000	ug/kg C U	100.000	ug/kg C	100.000	ug/kg C U
Tetraethylpyrophosphate	400.000	ug/kg C	400.000	ug/kg C	400.000	ug/kg C
Thionazin	100.000	ug/kg C U	100.000	ug/kg C	100.000	ug/kg C U
Toxaphene	1600.000	ug/kg D U	3100.000	ug/kg D U	180.000	ug/kg D U
alpha-BHC	79.000	ug/kg D U	150.000	ug/kg D U	9.100	ug/kg D U
alpha-Chlordane	790.000	ug/kg D U	1500.000	ug/kg D U	91.000	ug/kg D U
beta-BHC	79.000	ug/kg D U	150.000	ug/kg D U	9.100	ug/kg D U
delta-BHC	79.000	ug/kg D U	150.000	ug/kg D U	9.100	ug/kg D U
gamma-BHC (Lindane)	79.000	ug/kg D U	150.000	ug/kg D U	9.100	ug/kg D U
gamma-Chlordane	790.000	ug/kg D U	1500.000	ug/kg D U	91.000	ug/kg D U
Dioxin/Furan						
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.380	ug/kg E -	0.031	ug/kg E U	0.020	ug/kg E U

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1719	1719	1719	
SAMPLE NUMBER	067287	067295	067300	
SAMPLING DATE	3-4.5 08/07/91	15-16.5 08/08/91	18-19.5 08/08/91	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
Dioxin Furan				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.073	ug/kg E	0.017	ug/kg E U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.012	ug/kg E	0.022	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenz-p-dioxin	0.052	ug/kg E	0.077	ug/kg E
1,2,3,4,7,8-Hexachlorodibenzofuran	0.064	ug/kg E	0.025	ug/kg E
1,2,3,6,7,8-Hexachlorodibenz-p-dioxin	0.041	ug/kg E	0.061	ug/kg E
1,2,3,6,7,8-Hexachlorodibenzofuran	0.061	ug/kg E	0.024	ug/kg E
1,2,3,6,7,8-Hexachlorodibenz-p-dioxin	0.043	ug/kg E	0.063	ug/kg E
1,2,3,7,8,9-Hexachlorodibenz-p-dioxin	0.075	ug/kg E	0.029	ug/kg E
1,2,3,7,8,9-Hexachlorodibenzofuran	0.075	ug/kg E	0.170	ug/kg E
1,2,3,7,8-Pentachlorodibenz-p-dioxin	0.014	ug/kg E	0.130	ug/kg E
1,2,3,7,8-Pentachlorodibenzofuran	0.075	ug/kg E	0.029	ug/kg E
2,3,4,6,7,8-Hexachlorodibenzofuran	0.013	ug/kg E	0.130	ug/kg E
2,3,4,7,8-Pentachlorodibenzofuran	0.310	ug/kg E	0.350	ug/kg E
2,3,7,8-TCDD	0.140	ug/kg E	0.370	ug/kg E
2,3,7,8-TCDF	0.650	ug/kg E	0.031	ug/kg E
Heptachlorodibenz-p-dioxin	0.250	ug/kg E	0.019	ug/kg E
Heptachlorodibenzofuran	0.045	ug/kg E	0.066	ug/kg E
Hexachlorodibenz-p-dioxin	0.068	ug/kg E	0.026	ug/kg E
Octachlorodibenz-p-dioxin	7.100	ug/kg E	0.710	ug/kg E
Octachlorodibenzofuran	0.470	ug/kg E	0.140	ug/kg E
Pentachlorodibenz-p-dioxin	0.075	ug/kg E	0.170	ug/kg E
Pentachlorodibenzofuran	0.013	ug/kg E	0.130	ug/kg E
Tetrachlorodibenz-p-dioxin	0.023	ug/kg E	0.024	ug/kg E
Tetrachlorodibenzofuran	0.016	ug/kg E	0.059	ug/kg E
General Chemistry				
Sulfide	10.200	mg/kg C -	NA	10.700 mg/kg C -

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1720		1720		1720	
SAMPLE NUMBER	067307		067311		067312	
SAMPLING DATE	3-4-5		7-5-9		9-10-5	
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS
<u>Inorganics</u>						
Aluminum	14300.000	mg/kg	D	-	9770.000	mg/kg
Antimony	7.100	mg/kg	D	UJ	16.400	mg/kg
Arsenic	6.800	mg/kg	D	-	5.900	mg/kg
Barium	115.000	mg/kg	D	-	65.700	mg/kg
Beryllium	0.990	mg/kg	D	-	0.840	mg/kg
Boron	21.200	mg/kg	D	-	32.600	mg/kg
Cadmium	0.920	mg/kg	D	J	3.800	mg/kg
Calcium	9110.000	mg/kg	D	-	84700.000	mg/kg
Chromium	22.400	mg/kg	D	-	25.900	mg/kg
Cobalt	15.100	mg/kg	D	-	10.900	mg/kg
Copper	24.000	mg/kg	D	-	17.800	mg/kg
Cyanide	0.120	mg/kg	D	U	0.120	mg/kg
Iron	25800.000	mg/kg	D	-	15500.000	mg/kg
Lead	13.800	mg/kg	D	-	13.600	mg/kg
Magnesium	5120.000	mg/kg	D	-	26500.000	mg/kg
Manganese	340.000	mg/kg	D	-	502.000	mg/kg
Mercury	0.120	mg/kg	D	U	0.120	mg/kg
Molybdenum	16.000	mg/kg	D	-	14.200	mg/kg
Nickel	36.600	mg/kg	D	-	20.900	mg/kg
Potassium	830.000	mg/kg	D	-	907.000	mg/kg
Selenium	0.480	mg/kg	D	UJ	0.480	mg/kg
Silicon	564.000	mg/kg	D	J	567.000	mg/kg
Silver	4.200	mg/kg	D	-	14.900	mg/kg
Sodium	80.500	mg/kg	D	-	151.000	mg/kg
Thallium	0.480	mg/kg	D	U	0.480	mg/kg
Tin	NA				47.600	mg/kg
Vanadium	35.600	mg/kg	D	-	30.400	mg/kg
Zinc	60.500	mg/kg	D	-	41.600	mg/kg
<u>Volatile Organics</u>						
1,1,1,2-Tetrachloroethane	NA				6.000	ug/kg
1,1,1-Trichloroethane	6.000	ug/kg	D	U	6.000	ug/kg
1,1,2,2-Tetrachloroethane	6.000	ug/kg	D	UJ	6.000	ug/kg
1,1,2-Trichloroethane	6.000	ug/kg	D	U	6.000	ug/kg
1,1-Dichloroethane	6.000	ug/kg	D	U	6.000	ug/kg
1,1-Dichloroethene	6.000	ug/kg	D	U	6.000	ug/kg
1,2,3-Trichloropropane	NA				6.000	ug/kg
1,2-Dibromo-3-chloropropane	NA				6.000	ug/kg
1,2-Dibromoethane	NA				12.000	ug/kg
1,2-Dichloroethane	6.000	ug/kg	D	U	6.000	ug/kg
1,2-Dichloroethene	6.000	ug/kg	D	U	6.000	ug/kg

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1720	1720	1720			
SAMPLE NUMBER	067307	067311	067312			
SAMPLING DATE	3-4-5 08/10/91	7-5-9 08/10/91	9-10-5 08/10/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
1,2-Dichloropropane	6.000	ug/kg D U	6.000	ug/kg D U	6.000	ug/kg D U
1,4-Dioxane	NA		240.000	ug/kg D R	NA	
2-Butanone	12.000	ug/kg D U	12.000	ug/kg D UJ	12.000	ug/kg D U
2-Chloro-1,3-butadiene	NA		6.000	ug/kg D U	NA	
2-Hexanone	12.000	ug/kg D U	12.000	ug/kg D UJ	12.000	ug/kg D U
3-Chloropropene	NA		6.000	ug/kg D U	NA	
4-Methyl-2-pentanone	12.000	ug/kg D U	12.000	ug/kg D UJ	12.000	ug/kg D U
Acetone	12.000	ug/kg D UJ	33.000	ug/kg D UJ	16.000	ug/kg D UJ
Acetonitrile	NA		1200.000	ug/kg D UJ	NA	
Acrolein	NA		12.000	ug/kg D U	NA	
Acrylonitrile	NA		12.000	ug/kg D U	NA	
Benzene	6.000	ug/kg D U	6.000	ug/kg D U	6.000	ug/kg D U
Bromodichloromethane	6.000	ug/kg D U	6.000	ug/kg D U	6.000	ug/kg D U
Bromoform	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D UU
Bromomethane	12.000	ug/kg D UJ	12.000	ug/kg D U	12.000	ug/kg D UU
Carbon Tetrachloride	6.000	ug/kg D U	6.000	ug/kg D U	6.000	ug/kg D U
Carbon disulfide	6.000	ug/kg D UU	6.000	ug/kg D U	6.000	ug/kg D UU
Chlorobenzene	6.000	ug/kg D U	6.000	ug/kg D U	6.000	ug/kg D U
Chloroethane	12.000	ug/kg D UJ	12.000	ug/kg D U	12.000	ug/kg D UU
Chloroform	6.000	ug/kg D U	6.000	ug/kg D U	6.000	ug/kg D U
Chloromethane	12.000	ug/kg D UJ	12.000	ug/kg D U	12.000	ug/kg D UU
Dibromochloromethane	6.000	ug/kg D U	6.000	ug/kg D U	6.000	ug/kg D U
Dibromomethane	NA		12.000	ug/kg D U	NA	
Dichlorodifluoromethane	NA		240.000	ug/kg D U	NA	
Ethyl cyanide	NA		120.000	ug/kg D U	NA	
Ethyl methacrylate	NA		12.000	ug/kg D U	NA	
Ethylbenzene	6.000	ug/kg D U	6.000	ug/kg D U	6.000	ug/kg D U
Iodomethane	NA		6.000	ug/kg D U	NA	
Isobutyl alcohol	NA		24.000	ug/kg D U	NA	
Methacrylonitrile	NA		12.000	ug/kg D U	NA	
Methyl methacrylate	NA		12.000	ug/kg D U	NA	
Methylene chloride	6.000	ug/kg D U	6.000	ug/kg D U	25.000	ug/kg D U
Pyridine	NA		24.000	ug/kg D R	NA	
Styrene	6.000	ug/kg D U	6.000	ug/kg D U	6.000	ug/kg D U
Tetrachloroethene	6.000	ug/kg D UU	6.000	ug/kg D UU	6.000	ug/kg D UU
Toluene	6.000	ug/kg D UU	6.000	ug/kg D UU	6.000	ug/kg D UU
Trichloroethene	6.000	ug/kg D U	6.000	ug/kg D UU	6.000	ug/kg D UU
Trichlorofluoromethane	NA		6.000	ug/kg D UU	NA	
Vinyl Acetate	12.000	ug/kg D U	12.000	ug/kg D UU	12.000	ug/kg D U
Vinyl chloride	12.000	ug/kg D UU	12.000	ug/kg D UU	12.000	ug/kg D UU
Xylenes, Total	6.000	ug/kg D UU	6.000	ug/kg D UU	6.000	ug/kg D UU
cis-1,3-Dichloropropene	6.000	ug/kg D U	6.000	ug/kg D UU	6.000	ug/kg D UU

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1720	1720	1720
SAMPLE NUMBER	067307	067311	067312
SAMPLING DATE	3-4-5 08/10/91	7-5-9 08/10/91	9-10-5 08/10/91
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>			
trans-1,3-Dichloropropene	6.000	ug/kg	D U
trans-1,4-Dichloro-2-butene	NA		
<u>Semivolatile Organics</u>			
1,2,4,5-Tetrachlorobenzene	NA		
1,2,4-Trichlorobenzene	400.000	ug/kg	D R
1,2-Dichlorobenzene	400.000	ug/kg	D R
1,3,5-Trinitrobenzene	NA		
1,3-Dichlorobenzene	400.000	ug/kg	D R
1,3-Dinitrobenzene	NA		
1,4-Dichlorobenzene	400.000	ug/kg	D R
1,4-Naphthoquinone	NA		
1-Naphthylamine	NA		
2,3,4,6-Tetrachlorophenol	NA		
2,4,5-Trichlorophenol	1900.000	ug/kg	D R
2,4,6-Trichlorophenol	400.000	ug/kg	D R
2,4-Dichlorophenol	400.000	ug/kg	D R
2,4-Dimethylphenol	400.000	ug/kg	D R
2,4-Dinitrophenol	1900.000	ug/kg	D R
2,4-Dinitrotoluene	400.000	ug/kg	D R
2,6-Dichlorophenol	NA		
2,6-Dinitrotoluene	400.000	ug/kg	D R
2-Acetylaminofluorene	NA		
2-Chloronaphthalene	400.000	ug/kg	D R
2-Chlorophenol	49.000	ug/kg	D J
2-Methylnaphthalene	400.000	ug/kg	D R
2-Methylphenol	400.000	ug/kg	D R
2-Naphthylamine	NA		
2-Nitroaniline	1900.000	ug/kg	D R
2-Nitrophenol	400.000	ug/kg	D R
2-Picoline	NA		
3,3'-Dichlorobenzidine	790.000	ug/kg	D R
3,3'-Dimethylbenzidine	NA		
3-Methylcholanthrene	NA		
3-Methylphenol	NA		
3-Nitroaniline	1900.000	ug/kg	D R
4,6-Dinitro-2-methylphenol	1900.000	ug/kg	D R
4-Aminobiphenyl	NA		
4-Bromophenyl phenyl ether	400.000	ug/kg	D R
4-Chloro-3-methylphenol	55.000	ug/kg	D J
4-Chlorophenylphenyl ether	400.000	ug/kg	D R

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1720	1720	1720			
SAMPLE NUMBER	067307	067311	067312			
SAMPLING DATE	3-4.5 08/10/91	7.5-9 08/10/91	9-10.5 08/10/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4-Methylphenol	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
4-Nitroaniline	1900.000	ug/kg D R	2000.000	ug/kg D U	1900.000	ug/kg D R
4-Nitrophenol	1900.000	ug/kg D R	2000.000	ug/kg D U	1900.000	ug/kg D R
4-Nitroquinoline-1-oxide	NA		410.000	ug/kg D U	NA	
5-Nitro-o-toluidine	NA		830.000	ug/kg D U	NA	
7,12-Dimethylbenz(a)anthracene	NA		830.000	ug/kg D U	NA	
Acenaphthene	53.000	ug/kg D J	410.000	ug/kg D U	390.000	ug/kg D R
Acenaphthylene	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Acetophenone	NA		410.000	ug/kg D U	NA	
Aniline	NA		2100.000	ug/kg D U	NA	
Anthracene	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Aramite	NA		410.000	ug/kg D U	NA	
Benzo(a)anthracene	130.000	ug/kg D J	43.000	ug/kg D U	390.000	ug/kg D R
Benzo(s)pyrene	69.000	ug/kg D J	410.000	ug/kg D U	390.000	ug/kg D R
Benzo(b)fluoranthene	190.000	ug/kg D J	54.000	ug/kg D U	390.000	ug/kg D R
Benzo(g,h,i)perylene	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Benzo(k)fluoranthene	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Benzoic acid	1900.000	ug/kg D R	2000.000	ug/kg D U	1900.000	ug/kg D R
Benzyl alcohol	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Butyl benzyl phthalate	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Chrysene	140.000	ug/kg D J	47.000	ug/kg D U	390.000	ug/kg D R
Di-n-butyl phthalate	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Di-n-octyl phthalate	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Diallate	NA		410.000	ug/kg D U	NA	
Dibenzo(a,h)anthracene	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Dibenzofuran	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Diethyl phthalate	400.000	ug/kg D R	410.000	ug/kg D U	750.000	ug/kg D R
Dimethyl phthalate	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Diphenylamine	NA		410.000	ug/kg D U	NA	
Ethyl methanesulfonate	NA		410.000	ug/kg D U	NA	
Fluoranthene	250.000	ug/kg D J	94.000	ug/kg D U	390.000	ug/kg D R
Fluorene	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Hexachlorobenzene	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Hexachlorobutadiene	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Hexachlorocyclopentadiene	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Hexachloroethane	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Hexachlorophene	NA		2100.000	ug/kg D U	NA	
Hexachloropropene	NA		830.000	ug/kg D U	NA	
Indeno(1,2,3-cd)pyrene	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Isophorone	400.000	ug/kg D R	410.000	ug/kg D U	390.000	ug/kg D R
Isosafrole	NA		410.000	ug/kg D U	NA	
Methapyrilene	NA		1700.000	ug/kg D U	NA	

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1720	1720	1720
SAMPLE NUMBER	067307	067311	067312
SAMPLING DATE	3-4-5 08/10/91	7-5-9 08/10/91	9-10-5 08/10/91
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>			
Methyl methanesulfonate	NA		
Methyl parathion	100.000	ug/kg	C U
N-Nitroso-di-n-propylamine	400.000	ug/kg	D R
N-Nitrosodi-n-butylamine	NA		
N-Nitrosodiethylamine	NA		
N-Nitrosodimethylamine	NA		
N-Nitrosodiphenylamine	NA		
N-Nitrosomethyllethylamine	400.000	ug/kg	D R
N-Nitrosomorpholine	NA		
N-Nitrosopiperidine	NA		
N-Nitrosopyrrolidine	NA		
Naphthalene	400.000	ug/kg	D R
Nitrobenzene	400.000	ug/kg	D R
O,O,O-Triethylphosphorothioate	100.000	ug/kg	D U
Parathion	100.000	ug/kg	C U
Pentachlorobenzene	NA		
Pentachloroethane	NA		
Pentachloronitrobenzene	NA		
Pentachlorophenol	1900.000	ug/kg	D R
Phenacetin	NA		
Phenanthrene	160.000	ug/kg	D J
Phenol	61.000	ug/kg	D J
Pronamide	NA		
Pyrene	270.000	ug/kg	D J
Safrole	NA		
Sulfotep	100.000	ug/kg	C U
a,a-Dimethylphenethylamine	NA		
bis(2-Chloroethoxy)methane	400.000	ug/kg	D R
bis(2-Chloroethyl)ether	400.000	ug/kg	D R
bis(2-Chloroisopropyl) ether	400.000	ug/kg	D R
bis(2-Ethylhexyl) phthalate	400.000	ug/kg	D R
o-Toluidine	NA		
p-Chloroaniline	400.000	ug/kg	D R
p-Dimethylaminoazobenzene	NA		
p-Phenylenediamine	NA		
<u>Herbicide Organics</u>			
2,4,5-T	NA		
2,4,5-TP (Silvex)	NA		
2,4-D	NA		
Dinoseb	NA		
		48.000	ug/kg D U
		44.000	ug/kg D UU
		250.000	ug/kg D UU
		17.000	ug/kg D U

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1720	1720	1720			
SAMPLE NUMBER	067307 3-4.5 08/10/91	067311 7.5-9 08/10/91	067312 9-10.5 08/10/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	19.000	ug/kg D U	20.000	ug/kg D U	19.000	ug/kg D U
4,4'-DDE	19.000	ug/kg D U	20.000	ug/kg D U	19.000	ug/kg D U
4,4'-DDT	19.000	ug/kg D U	20.000	ug/kg D U	19.000	ug/kg D U
Aldrin	9.600	ug/kg D U	10.000	ug/kg D U	9.300	ug/kg D U
Aroclor-1016	96.000	ug/kg D U	100.000	ug/kg D U	93.000	ug/kg D U
Aroclor-1221	96.000	ug/kg D U	100.000	ug/kg D U	93.000	ug/kg D U
Aroclor-1232	96.000	ug/kg D U	100.000	ug/kg D U	93.000	ug/kg D U
Aroclor-1242	96.000	ug/kg D U	100.000	ug/kg D U	93.000	ug/kg D U
Aroclor-1248	96.000	ug/kg D U	100.000	ug/kg D U	93.000	ug/kg D U
Aroclor-1254	190.000	ug/kg D U	200.000	ug/kg D U	190.000	ug/kg D U
Aroclor-1260	190.000	ug/kg D U	200.000	ug/kg D U	190.000	ug/kg D U
Azinphosmethyl	1000.000	ug/kg C U	1000.000	ug/kg C U	1000.000	ug/kg C U
Chlorobenzilate	NA		20.000	ug/kg D U	NA	
Demeton	200.000	ug/kg C U	200.000	ug/kg C U	200.000	ug/kg C U
Diazinon	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Dieldrin	19.000	ug/kg D U	20.000	ug/kg D U	19.000	ug/kg D U
Dimethoate	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Disulfoton	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Endosulfan II	19.000	ug/kg D U	20.000	ug/kg D U	19.000	ug/kg D U
Endosulfan sulfate	19.000	ug/kg D U	20.000	ug/kg D U	19.000	ug/kg D U
Endosulfan-I	9.600	ug/kg D U	10.000	ug/kg D U	9.300	ug/kg D U
Endrin	19.000	ug/kg D U	20.000	ug/kg D U	19.000	ug/kg D U
Endrin ketone	19.000	ug/kg D U	20.000	ug/kg D U	19.000	ug/kg D U
Ethion	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Famphur	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Heptachlor	9.600	ug/kg D U	10.000	ug/kg D U	9.300	ug/kg D U
Heptachlor epoxide	9.600	ug/kg D U	10.000	ug/kg D U	9.300	ug/kg D U
Isodrin	NA		10.000	ug/kg D U	NA	
Kepone	NA		20.000	ug/kg D U	NA	
Malathion	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Methoxychlor	96.000	ug/kg D U	100.000	ug/kg D U	93.000	ug/kg D U
Phorate	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Tetraethylpyrophosphate	400.000	ug/kg C U	400.000	ug/kg C U	400.000	ug/kg C U
Thionazin	100.000	ug/kg C U	100.000	ug/kg C U	100.000	ug/kg C U
Toxaphene	190.000	ug/kg D U	200.000	ug/kg D U	190.000	ug/kg D U
alpha-BHC	9.600	ug/kg D U	10.000	ug/kg D U	9.300	ug/kg D U
alpha-Chlordane	96.000	ug/kg D U	100.000	ug/kg D U	93.000	ug/kg D U
beta-BHC	9.600	ug/kg D U	10.000	ug/kg D U	9.300	ug/kg D U
delta-BHC	9.600	ug/kg D U	10.000	ug/kg D U	9.300	ug/kg D U
gamma-BHC (Lindane)	9.600	ug/kg D U	10.000	ug/kg D U	9.300	ug/kg D U
gamma-Chlordane	96.000	ug/kg D U	100.000	ug/kg D U	93.000	ug/kg D U
<u>Dioxin/Furan</u>						
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.063	ug/kg E U	0.084	ug/kg E U	0.020	ug/kg E U

TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1720	1720	1720			
SAMPLE NUMBER	067307	067311	067312			
SAMPLING DATE	3-4.5	7.5-9	9-10.5			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Dioxin Furan</u>						
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.012	ug/kg E U	0.029	ug/kg E U	0.012	ug/kg E U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.015	ug/kg E U	0.037	ug/kg E U	0.015	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenz-p-dioxin	0.023	ug/kg E U	0.010	ug/kg E U	0.027	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenzofuran	0.012	ug/kg E U	0.012	ug/kg E U	0.019	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenz-p-dioxin	0.018	ug/kg E U	0.008	ug/kg E U	0.021	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenzofuran	0.012	ug/kg E U	0.012	ug/kg E U	0.018	ug/kg E U
1,2,3,7,8,9-Hexachlorodibenz-p-dioxin	0.019	ug/kg E U	0.008	ug/kg E U	0.022	ug/kg E U
1,2,3,7,8,9-Hexachlorodibenzofuran	0.014	ug/kg E U	0.015	ug/kg E U	0.022	ug/kg E U
1,2,3,7,8-Pentachlorodibenz-p-dioxin	0.047	ug/kg E U	0.170	ug/kg E U	0.066	ug/kg E U
1,2,3,7,8-Pentachlorodibenzofuran	0.026	ug/kg E U	0.034	ug/kg E U	0.091	ug/kg E U
2,3,4,6,7,8-Hexachlorodibenzofuran	0.014	ug/kg E U	0.015	ug/kg E U	0.022	ug/kg E U
2,3,4,7,8-Pentachlorodibenzofuran	0.025	ug/kg E U	0.033	ug/kg E U	0.088	ug/kg E U
2,3,7,8-TCDD	0.170	ug/kg E U	0.130	ug/kg E U	0.150	ug/kg E U
2,3,7,8-TCDF	0.120	ug/kg E U	0.083	ug/kg E U	0.150	ug/kg E U
Heptachlorodibenz-p-dioxin	0.063	ug/kg E U	0.084	ug/kg E U	0.020	ug/kg E U
Heptachlorodibenzofuran	0.013	ug/kg E U	0.033	ug/kg E U	0.013	ug/kg E U
Hexachlorodibenz-p-dioxin	0.020	ug/kg E U	0.009	ug/kg E U	0.023	ug/kg E U
Hexachlorodibenzofuran	0.013	ug/kg E U	0.013	ug/kg E U	0.020	ug/kg E U
Octachlorodibenz-p-dioxin	7.800	ug/kg E U	7.200	ug/kg E U	0.860	ug/kg E U
Octachlorodibenzofuran	0.028	ug/kg E U	0.009	ug/kg E U	0.044	ug/kg E U
Pentachlorodibenz-p-dioxin	0.047	ug/kg E U	0.170	ug/kg E U	0.066	ug/kg E U
Pentachlorodibenzofuran	0.026	ug/kg E U	0.034	ug/kg E U	0.090	ug/kg E U
Tetrachlorodibenz-p-dioxin	0.010	ug/kg E U	0.030	ug/kg E U	0.010	ug/kg E U
Tetrachlorodibenzofuran	0.025	ug/kg E U	0.019	ug/kg E U	0.055	ug/kg E U

C-6-23

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3173TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1721	1721	1722			
SAMPLE NUMBER	067234	067237	067250			
SAMPLING DATE	9-10-5 07/26/91	13.5-15 07/27/91	1.5-3 07/29/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	10800.000	mg/kg D - UJ	12500.000	mg/kg D - UJ	6400.000	mg/kg D - UJ
Antimony	7.700	mg/kg D UJ	7.700	mg/kg D UJ	6.600	mg/kg D UJ
Arsenic	9.000	mg/kg D J	13.800	mg/kg D -	3.300	mg/kg D J
Barium	71.300	mg/kg D -	126.000	mg/kg D J	37.300	mg/kg D J
Beryllium	0.920	mg/kg D J	0.930	mg/kg D -	0.590	mg/kg D -
Boron	25.600	mg/kg D UJ	NA		NA	
Cadmium	1.400	mg/kg D -	0.520	mg/kg D U	2.700	mg/kg D -
Calcium	45800.000	mg/kg D -	6330.000	mg/kg D C	113000.000	mg/kg D C
Chromium	20.200	mg/kg D -	21.900	mg/kg D C	22.500	mg/kg D C
Cobalt	9.400	mg/kg D -	18.800	mg/kg D C	7.500	mg/kg D C
Copper	19.200	mg/kg D -	28.400	mg/kg D C	18.600	mg/kg D C
Cyanide	0.140	mg/kg D -	0.130	mg/kg D C	0.790	mg/kg D C
Iron	21300.000	mg/kg D C	33300.000	mg/kg D C	16000.000	mg/kg D C
Lead	14.000	mg/kg D C	16.700	mg/kg D C	147.000	mg/kg D C
Magnesium	15200.000	mg/kg D C	5300.000	mg/kg D C	29600.000	mg/kg D C
Manganese	555.000	mg/kg D C	923.000	mg/kg D C	375.000	mg/kg D C
Mercury	0.120	mg/kg D C	0.120	mg/kg D C	0.110	mg/kg D C
Molybdenum	11.800	mg/kg D -	14.900	mg/kg D C	10.200	mg/kg D C
Nickel	19.900	mg/kg D -	41.000	mg/kg D C	22.700	mg/kg D C
Potassium	1140.000	mg/kg D UJ	1170.000	mg/kg D U	1230.000	mg/kg D C
Selenium	0.520	mg/kg D UJ	0.510	mg/kg D U	0.440	mg/kg D C
Silicon	1140.000	mg/kg D -	NA		NA	
Silver	7.500	mg/kg D -	2.600	mg/kg D UJ	12.500	mg/kg D J
Sodium	117.000	mg/kg D -	83.400	mg/kg D -	342.000	mg/kg D -
Thallium	0.520	mg/kg D C	0.600	mg/kg D -	0.440	mg/kg D U
Tin	51.100	mg/kg D C	NA		NA	
Vanadium	26.600	mg/kg D C	33.700	mg/kg D C	22.200	mg/kg D -
Zinc	47.500	mg/kg D -	77.800	mg/kg D -	36.400	mg/kg D -
<u>Volatile Organics</u>						
1,1,1,2-Tetrachloroethane	6.440	ug/kg D U	NA		NA	
1,1,1-Trichloroethane	6.000	ug/kg D UU	6.000	ug/kg D U	5.000	ug/kg D UU
1,1,2,2-Tetrachloroethane	6.000	ug/kg D UU	6.000	ug/kg D U	5.000	ug/kg D UU
1,1,2-Trichloroethane	6.000	ug/kg D UU	6.000	ug/kg D U	5.000	ug/kg D UU
1,1-Dichloroethane	16.000	ug/kg D -	6.000	ug/kg D C	130.000	ug/kg D -
1,1-Dichloroethene	6.000	ug/kg D UU	6.000	ug/kg D U	5.000	ug/kg D UU
1,2,3-Trichloropropene	6.440	ug/kg C UU	NA		NA	
1,2-Dibromo-3-chloropropane	12.900	ug/kg D UU	NA		NA	
1,2-Dibromoethane	6.440	ug/kg D UU	NA		NA	
1,2-Dichloroethane	6.000	ug/kg D UU	6.000	ug/kg D U	5.000	ug/kg D UU
1,2-Dichloroethene	6.000	ug/kg D UU	2.000	ug/kg D U	5.000	ug/kg D UU

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1721	1721	1722					
SAMPLE NUMBER	067234	067237	067250					
SAMPLING DATE	9-10-5 07/26/91	13-5-15 07/27/91	1.5-3 07/29/91					
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS					
<u>Volatile Organics</u>								
1,2-Dichloropropane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
1,4-Dioxane	12900.000	ug/kg D U	NA	13.000	ug/kg D R	NA	11.000	ug/kg D U
2-Butanone	13.000	ug/kg D U	NA	13.000	ug/kg D R	NA	11.000	ug/kg D U
2-Chloro-1,3-butadiene	6.440	ug/kg D U	NA	13.000	ug/kg D R	NA	11.000	ug/kg D U
2-Hexanone	13.000	ug/kg D U	NA	13.000	ug/kg D R	NA	11.000	ug/kg D U
3-Chloropropene	6.440	ug/kg D U	NA	13.000	ug/kg D R	NA	11.000	ug/kg D U
4-Methyl-2-pentanone	13.000	ug/kg D U	NA	13.000	ug/kg D R	NA	11.000	ug/kg D U
Acetone	39.000	ug/kg D U	NA	93.000	ug/kg D R	NA	10.000	ug/kg D U
Acetonitrile	1290.000	ug/kg D U	NA	NA	NA	NA	NA	NA
Acrolein	12.900	ug/kg D U	NA	NA	NA	NA	NA	NA
Acrylonitrile	12.900	ug/kg D U	NA	NA	NA	NA	NA	NA
Benzene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Bromodichloromethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Bromoform	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Bromomethane	13.000	ug/kg D U	13.000	ug/kg D U	11.000	ug/kg D U		
Carbon Tetrachloride	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Carbon disulfide	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Chlorobenzene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Chloroethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Chloroform	13.000	ug/kg D U	13.000	ug/kg D U	11.000	ug/kg D U		
Chloromethane	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Dibromochloromethane	6.000	ug/kg D U	13.000	ug/kg D U	11.000	ug/kg D U		
Dibromomethane	12.900	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Dichlorodifluoromethane	576.000	ug/kg D U	NA	NA	NA	NA		
Ethyl cyanide	129.000	ug/kg D U	NA	NA	NA	NA		
Ethyl methacrylate	12.900	ug/kg D U	NA	NA	NA	NA		
Ethylbenzene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Iodomethane	6.440	ug/kg D U	NA	NA	NA	NA		
Isobutyl alcohol	25.800	ug/kg D U	NA	NA	NA	NA		
Methacrylonitrile	12.900	ug/kg D U	NA	NA	NA	NA		
Methyl methacrylate	12.900	ug/kg D U	NA	NA	NA	NA		
Methylene chloride	8.000	ug/kg D U	17.000	ug/kg D U	5.000	ug/kg D U		
Pyridine	25.800	ug/kg D U	NA	NA	NA	NA		
Styrene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Tetrachloroethene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Toluene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Trichloroethene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
Trichlorofluoromethane	6.440	ug/kg D U	NA	NA	NA	NA		
Vinyl Acetate	13.000	ug/kg D U	13.000	ug/kg D U	11.000	ug/kg D U		
Vinyl chloride	13.000	ug/kg D U	13.000	ug/kg D U	11.000	ug/kg D U		
Xylenes, Total	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		
cis-1,3-Dichloropropene	6.000	ug/kg D U	6.000	ug/kg D U	5.000	ug/kg D U		

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1721	1721	1722			
SAMPLE NUMBER	067234	067237	067250			
SAMPLING DATE	9-10-5 07/26/91	13.5-15 07/27/91	1.5-3 07/29/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
trans-1,3-Dichloropropene	6.000	ug/kg D U	6.000	ug/kg D UJ	5.000	ug/kg D U
trans-1,4-Dichloro-2-butene	129.000	ug/kg D U	NA		NA	
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	440.000	ug/kg D UJ	NA		NA	
1,2,4-Trichlorobenzene	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
1,2-Dichlorobenzene	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
1,3,5-Trinitrobenzene	440.000	ug/kg D R	NA		NA	
1,3-Dichlorobenzene	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
1,3-Dinitrobenzene	440.000	ug/kg D R	NA		NA	
1,4-Dichlorobenzene	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
1,4-Naphthoquinone	440.000	ug/kg D UJ	NA		NA	
1-Naphthylamine	5400.000	ug/kg D UJ	NA		NA	
2,3,4,6-Tetrachlorophenol	440.000	ug/kg D UJ	NA		NA	
2,4,5-Trichlorophenol	2200.000	ug/kg D U	2100.000	ug/kg D U	1800.000	ug/kg D U
2,4,6-Trichlorophenol	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
2,4-Dichlorophenol	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
2,4-Dimethylphenol	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
2,4-Dinitrophenol	2200.000	ug/kg D U	2100.000	ug/kg D U	1800.000	ug/kg D U
2,4-Dinitrotoluene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
2,6-Dichlorophenol	440.000	ug/kg D UJ	NA		NA	
2,6-Dinitrotoluene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
2-Acetylaminofluorene	440.000	ug/kg D U	NA		NA	
2-Chloronaphthalene	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
2-Chlorophenol	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
2-Methylnaphthalene	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
2-Methylphenol	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
2-Naphthylamine	7700.000	ug/kg D UJ	NA		NA	
2-Nitroaniline	2200.000	ug/kg D U	2100.000	ug/kg D U	1800.000	ug/kg D U
2-Nitrophenol	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
2-Picoline	3100.000	ug/kg D R	NA		NA	
3,3'-Dichlorobenzidine	890.000	ug/kg D UU	850.000	ug/kg D UJ	740.000	ug/kg D UJ
3,3'-Dimethylbenzidine	3600.000	ug/kg D UU	NA		NA	
3-Methylcholanthrene	1300.000	ug/kg D UJ	NA		NA	
3-Methylphenol	440.000	ug/kg D R	NA		NA	
3-Nitroaniline	2200.000	ug/kg D U	2100.000	ug/kg D UJ	1800.000	ug/kg D UJ
4,6-Dinitro-2-methylphenol	2200.000	ug/kg D U	2100.000	ug/kg D U	1800.000	ug/kg D U
4-Aminobiphenyl	2200.000	ug/kg D U	NA		NA	
4-Bromophenyl phenyl ether	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
4-Chloro-3-methylphenol	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U
4-Chlorophenylphenyl ether	440.000	ug/kg D U	430.000	ug/kg D U	370.000	ug/kg D U

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1721	1721	1722			
SAMPLE NUMBER	067234	067237	067250			
SAMPLING DATE	9-10.5 07/26/91	13.5-15 07/27/91	1.5-3 07/29/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4-Methylphenol	440.000	ug/kg D U	430.000	ug/kg D UJ	370.000	ug/kg D U
4-Nitroaniline	2200.000	ug/kg D R	2100.000	ug/kg D UJ	1800.000	ug/kg D UJ
4-Nitrophenol	2200.000	ug/kg D U	2100.000	ug/kg D UJ	1800.000	ug/kg D UJ
4-Nitroquinoline-1-oxide	440.000	ug/kg D R	NA	NA	NA	NA
5-Nitro-o-toluidine	900.000	ug/kg D UJ	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	900.000	ug/kg D UJ	NA	NA	NA	NA
Acenaphthene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Acenaphthylene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Acetophenone	440.000	ug/kg D UJ	NA	NA	NA	NA
Aniline	2300.000	ug/kg D UJ	NA	NA	370.000	ug/kg D U
Anthracene	440.000	ug/kg D UJ	430.000	ug/kg D U	NA	NA
Aramite	440.000	ug/kg D R	NA	NA	370.000	ug/kg D U
Benz(a)anthracene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Benz(a)pyrene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Benz(b)fluoranthene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Benz(g,h,i)perylene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Benz(k)fluoranthene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Benzoic acid	2200.000	ug/kg D UJ	2100.000	ug/kg D U	1800.000	ug/kg D U
Benzyl alcohol	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Butyl benzyl phthalate	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Chrysene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Di-n-butyl phthalate	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Di-n-octyl phthalate	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Diallate	440.000	ug/kg D UJ	NA	NA	NA	NA
Dibenzo(a,h)anthracene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Dibenzofuran	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Diethyl phthalate	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Dimethyl phthalate	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Diphenylamine	440.000	ug/kg D UJ	NA	NA	NA	NA
Ethyl methanesulfonate	440.000	ug/kg D R	NA	NA	NA	NA
Fluoranthene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Fluorene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Hexachlorobenzene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Hexachlorobutadiene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Hexachlorocyclopentadiene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Hexachloroethane	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Hexachlorophene	2300.000	ug/kg D UJ	NA	NA	NA	NA
Hexachloropropene	900.000	ug/kg D R	NA	NA	370.000	ug/kg D U
Indeno(1,2,3-cd)pyrene	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Isophorone	440.000	ug/kg D UJ	430.000	ug/kg D U	370.000	ug/kg D U
Iosafrole	440.000	ug/kg D UJ	NA	NA	NA	NA
Methapyrilene	1800.000	ug/kg D R	NA	NA	NA	NA

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1721	1721	1722
SAMPLE NUMBER	067234	067237	067250
SAMPLING DATE	9-10.5 07/26/91	13.5-15 07/27/91	1.5-3 07/29/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Methyl methanesulfonate	440.000	ug/kg D UJ	NA
Methyl parathion	100.000	ug/kg C U	100.000
N-Nitroso-di-n-propylamine	440.000	ug/kg D U	370.000
N-Nitrosodi-n-butylamine	900.000	ug/kg D R	NA
N-Nitrosodiethylamine	440.000	ug/kg D R	NA
N-Nitrosodimethylamine	440.000	ug/kg D R	NA
N-Nitrosodiphenylamine	440.000	ug/kg D U	370.000
N-Nitrosomethylethyldamine	440.000	ug/kg D R	NA
N-Nitrosomorpholine	440.000	ug/kg D R	NA
N-Nitrosopiperidine	440.000	ug/kg D R	NA
N-Nitrosopyrrolidine	440.000	ug/kg D R	NA
Naphthalene	440.000	ug/kg D U	370.000
Nitrobenzene	440.000	ug/kg D U	370.000
O,O,O-Triethylphosphorothioate	440.000	ug/kg D UJ	100.000
Parathion	100.000	ug/kg C UJ	100.000
Pentachlorobenzene	900.000	ug/kg D UJ	NA
Pentachloroethane	900.000	ug/kg D UJ	NA
Pentachloronitrobenzene	900.000	ug/kg D UJ	NA
Pentachlorophenol	2200.000	ug/kg D UJ	2100.000
Phenacetin	440.000	ug/kg D UJ	NA
Phenanthrene	440.000	ug/kg D UJ	430.000
Phenol	440.000	ug/kg D UJ	430.000
Pronamide	1300.000	ug/kg D UJ	NA
Pyrene	440.000	ug/kg D UJ	430.000
Safrole	440.000	ug/kg D UJ	NA
Sulfotep	440.000	ug/kg D R	100.000
a,a-Dimethylphenethylamine	440.000	ug/kg D UJ	NA
bis(2-Chloroethoxy)methane	440.000	ug/kg D UJ	430.000
bis(2-Chloroethyl)ether	440.000	ug/kg D UJ	430.000
bis(2-Chloroisopropyl) ether	440.000	ug/kg D UJ	430.000
bis(2-Ethylhexyl) phthalate	440.000	ug/kg D UJ	430.000
o-Toluidine	440.000	ug/kg D UJ	NA
p-Chloroaniline	440.000	ug/kg D UJ	430.000
p-Dimethylaminooazobenzene	1300.000	ug/kg D UJ	NA
p-Phenylenediamine	2200.000	ug/kg D R	NA
<u>Herbicide Organics</u>			
2,4,5-T	50.000	ug/kg D U	NA
2,4,5-TP (Silvex)	46.000	ug/kg D U	NA
2,4-D	250.000	ug/kg D U	NA
Dinoseb	900.000	ug/kg D R	NA

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1721	1721	1722			
SAMPLE NUMBER	067234	067237	067250			
SAMPLING DATE	9-10.5 07/26/91	13.5-15 07/27/91	1.5-3 07/29/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	21.000	ug/kg D U	21.000	ug/kg D U	18.000	ug/kg D U
4,4'-DDE	21.000	ug/kg D U	21.000	ug/kg D U	18.000	ug/kg D U
4,4'-DDT	21.000	ug/kg D U	21.000	ug/kg D U	18.000	ug/kg D U
Aldrin	11.000	ug/kg D U	10.000	ug/kg D U	9.100	ug/kg D U
Aroclor-1016	110.000	ug/kg D U	100.000	ug/kg D U	91.000	ug/kg D U
Aroclor-1221	110.000	ug/kg D U	100.000	ug/kg D U	91.000	ug/kg D U
Aroclor-1232	110.000	ug/kg D U	100.000	ug/kg D U	91.000	ug/kg D U
Aroclor-1242	110.000	ug/kg D U	100.000	ug/kg D U	91.000	ug/kg D U
Aroclor-1248	110.000	ug/kg D U	100.000	ug/kg D U	91.000	ug/kg D U
Aroclor-1254	210.000	ug/kg D U	210.000	ug/kg D U	180.000	ug/kg D U
Aroclor-1260	610.000	ug/kg D U	210.000	ug/kg D U	180.000	ug/kg D U
Azinphosmethyl Chlorobenzilate	1000.000	ug/kg C	1000.000	ug/kg C	200.000	ug/kg C
Demeton	21.000	ug/kg D U	NA		NA	
Diazinon	200.000	ug/kg C	200.000	ug/kg C	200.000	ug/kg C
Dieldrin	100.000	ug/kg C	100.000	ug/kg C	100.000	ug/kg C
Dimethoate	21.000	ug/kg C	21.000	ug/kg C	18.000	ug/kg C
Disulfoton	100.000	ug/kg C	100.000	ug/kg C	100.000	ug/kg C
Endosulfan II	21.000	ug/kg D U	21.000	ug/kg D U	18.000	ug/kg D U
Endosulfan sulfate	21.000	ug/kg D U	21.000	ug/kg D U	18.000	ug/kg D U
Endosulfan-I	11.000	ug/kg D U	10.000	ug/kg D U	9.100	ug/kg D U
Endrin	21.000	ug/kg D U	21.000	ug/kg D U	18.000	ug/kg D U
Endrin ketone	21.000	ug/kg D U	21.000	ug/kg D U	18.000	ug/kg D U
Ethion	NA		100.000	ug/kg C	100.000	ug/kg C
Famphur	100.000	ug/kg C	100.000	ug/kg C	100.000	ug/kg C
Heptachlor	11.000	ug/kg D U	10.000	ug/kg D U	9.100	ug/kg D U
Heptachlor epoxide	11.000	ug/kg D U	10.000	ug/kg D U	9.100	ug/kg D U
Isodrin	11.000	ug/kg D U	NA		NA	
Kepone	21.000	ug/kg D U	NA		NA	
Malathion	100.000	ug/kg C	100.000	ug/kg C	100.000	ug/kg C
Methoxychlor	110.000	ug/kg D U	100.000	ug/kg D U	91.000	ug/kg D U
Phorate	100.000	ug/kg C	100.000	ug/kg C	100.000	ug/kg C
Tetraethylpyrophosphate	400.000	ug/kg C	400.000	ug/kg C	400.000	ug/kg C
Thionazin	100.000	ug/kg C	100.000	ug/kg C	100.000	ug/kg C
Toxaphene	210.000	ug/kg D U	210.000	ug/kg D U	180.000	ug/kg D U
alpha-BHC	11.000	ug/kg D U	10.000	ug/kg D U	9.100	ug/kg D U
alpha-Chlordane	110.000	ug/kg D U	100.000	ug/kg D U	91.000	ug/kg D U
beta-BHC	11.000	ug/kg D U	10.000	ug/kg D U	9.100	ug/kg D U
delta-BHC	11.000	ug/kg D U	10.000	ug/kg D U	9.100	ug/kg D U
gamma-BHC (Lindane)	11.000	ug/kg D U	10.000	ug/kg D U	9.100	ug/kg D U
gamma-Chlordane	110.000	ug/kg D U	100.000	ug/kg D U	91.000	ug/kg D U
<u>Dioxin Furan</u>						
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.037	ug/kg E U	0.013	ug/kg E U	0.018	ug/kg E U

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(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1721	1721	1722			
SAMPLE NUMBER	067234	067237	067250			
SAMPLING DATE	9-10.5 07/26/91	13.5-15 07/27/91	1.5-3 07/29/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Dioxin Furan</u>						
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.015	ug/kg E U	0.021	ug/kg E U	0.037	ug/kg E U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.019	ug/kg E U	0.026	ug/kg E U	0.047	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenz-p-dioxin	0.076	ug/kg E U	0.019	ug/kg E U	0.033	ug/kg E U
1,2,3,4,7,8-Hexachlorodibenzofuran	0.014	ug/kg E U	0.015	ug/kg E U	0.010	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenz-p-dioxin	0.060	ug/kg E U	0.015	ug/kg E U	0.026	ug/kg E U
1,2,3,6,7,8-Hexachlorodibenzofuran	0.013	ug/kg E U	0.014	ug/kg E U	0.010	ug/kg E U
1,2,3,7,8,9-Hexachlorodibenz-p-dioxin	0.063	ug/kg E U	0.016	ug/kg E U	0.027	ug/kg E U
1,2,3,7,8,9-Hexachlorodibenzofuran	0.016	ug/kg E U	0.017	ug/kg E U	0.012	ug/kg E U
1,2,3,7,8-Pentachlorodibenz-p-dioxin	0.140	ug/kg E U	0.056	ug/kg E U	0.094	ug/kg E U
1,2,3,7,8-Pentachlorodibenzofuran	0.049	ug/kg E U	0.011	ug/kg E U	0.013	ug/kg E U
2,3,4,6,7,8-Hexachlorodibenzofuran	0.016	ug/kg E U	0.017	ug/kg E U	0.012	ug/kg E U
2,3,4,7,8-Pentachlorodibenzofuran	0.047	ug/kg E U	0.011	ug/kg E U	0.013	ug/kg E U
2,3,7,8-TCDD	0.120	ug/kg E U	0.065	ug/kg E U	0.051	ug/kg E U
2,3,7,8-TCDF	0.110	ug/kg E U	0.037	ug/kg E U	0.039	ug/kg E U
Heptachlorodibenz-p-dioxin	0.037	ug/kg E U	0.013	ug/kg E U	0.018	ug/kg E U
Heptachlorodibenzofuran	0.016	ug/kg E U	0.023	ug/kg E U	0.042	ug/kg E U
Hexachlorodibenz-p-dioxin	0.066	ug/kg E U	0.017	ug/kg E U	0.028	ug/kg E U
Hexachlorodibenzofuran	0.014	ug/kg E U	0.016	ug/kg E U	0.011	ug/kg E U
Octachlorodibenz-p-dioxin	0.310	ug/kg E U	0.050	ug/kg E U	0.055	ug/kg E U
Octachlorodibenzofuran	0.120	ug/kg E U	0.039	ug/kg E U	0.013	ug/kg E U
Pentachlorodibenz-p-dioxin	0.140	ug/kg E U	0.056	ug/kg E U	0.094	ug/kg E U
Pentachlorodibenzofuran	0.048	ug/kg E U	0.011	ug/kg E U	0.013	ug/kg E U
Tetrachlorodibenz-p-dioxin	0.022	ug/kg E U	0.032	ug/kg E U	0.013	ug/kg E U
Tetrachlorodibenzofuran	0.007	ug/kg E U	0.019	ug/kg E U	0.015	ug/kg E U
<u>General Chemistry</u>						
Sulfide	12.700	mg/kg C -	NA	NA		

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1722	1808	1808		
SAMPLE NUMBER	067259	067394	067395		
SAMPLING DATE	14-16.5 07/30/91	3-4.5 08/27/91	4.5-6 08/27/91		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
<u>Inorganics</u>					
Aluminum	8420.000	mg/kg D -	9850.000	mg/kg D -	NA
Antimony	7.700	mg/kg D UJ	10.600	mg/kg D J	NA
Arsenic	6.100	mg/kg D -	5.000	mg/kg D -	NA
Barium	90.200	mg/kg D -	78.600	mg/kg D -	NA
Beryllium	0.630	mg/kg D -	0.710	mg/kg D -	NA
Boron	26.600	mg/kg D -	22.100	mg/kg D UJ	NA
Cadmium	2.300	mg/kg D -	2.100	mg/kg D -	NA
Calcium	79500.000	mg/kg D -	52700.000	mg/kg D -	NA
Chromium	23.400	mg/kg D -	25.300	mg/kg D -	NA
Cobalt	12.700	mg/kg D -	11.800	mg/kg D -	NA
Copper	22.200	mg/kg D -	17.600	mg/kg D -	NA
Cyanide	0.500	mg/kg D -	0.110	mg/kg D -	NA
Iron	22200.000	mg/kg D -	17000.000	mg/kg D -	NA
Lead	10.100	mg/kg D -	13.300	mg/kg D -	NA
Magnesium	27900.000	mg/kg D -	14300.000	mg/kg D -	NA
Manganese	826.000	mg/kg D -	422.000	mg/kg D -	NA
Mercury	0.130	mg/kg D -	0.100	mg/kg D -	NA
Molybdenum	11.200	mg/kg D -	11.700	mg/kg D -	NA
Nickel	30.200	mg/kg D -	19.900	mg/kg D -	NA
Potassium	960.000	mg/kg D -	976.000	mg/kg D -	NA
Selenium	0.510	mg/kg D -	0.440	mg/kg D -	NA
Silicon	701.000	mg/kg D -	815.000	mg/kg D -	NA
Silver	10.200	mg/kg D -	11.000	mg/kg D -	NA
Sodium	126.000	mg/kg D -	109.000	mg/kg D -	NA
Thallium	0.510	mg/kg D U	0.440	mg/kg D -	NA
Tin	NA	-	44.300	mg/kg D -	NA
Vanadium	26.100	mg/kg D -	28.400	mg/kg D -	NA
Zinc	46.900	mg/kg D -	50.400	mg/kg D -	NA
<u>Volatile Organics</u>					
1,1,1-Trichloroethane	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
1,1,2,2-Tetrachloroethane	6.000	ug/kg D CCC	5.000	ug/kg D CCC	NA
1,1,2-Trichloroethane	6.000	ug/kg D CCC	5.000	ug/kg D CCC	NA
1,1-Dichloroethane	6.000	ug/kg D CCC	5.000	ug/kg D CCC	NA
1,1-Dichloroethene	6.000	ug/kg D CCC	5.000	ug/kg D CCC	NA
1,2-Dichloroethane	6.000	ug/kg D CCC	5.000	ug/kg D CCC	NA
1,2-Dichloroethene	6.000	ug/kg D CCC	5.000	ug/kg D CCC	NA
1,2-Dichloropropane	6.000	ug/kg D CCC	5.000	ug/kg D CCC	NA
2-Butanone	3.000	ug/kg D CCC	11.000	ug/kg D CCC	NA
2-Hexanone	13.000	ug/kg D CCC	11.000	ug/kg D CCC	NA
4-Methyl-2-pentanone	13.000	ug/kg D CCC	11.000	ug/kg D CCC	NA

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(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1722	1808	1808		
SAMPLE NUMBER	067259	067394	067395		
SAMPLING DATE	14-16.5 07/30/91	3-4.5 08/27/91	4.5-6 08/27/91		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
<u>Volatile Organics</u>					
Acetone	26.000	ug/kg D U	11.000	ug/kg D UJ	NA
Benzene	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Bromodichloromethane	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Bromoform	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Bromomethane	13.000	ug/kg D U	11.000	ug/kg D UJ	NA
Carbon Tetrachloride	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Carbon disulfide	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Chlorobenzene	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Chloroethane	13.000	ug/kg D U	11.000	ug/kg D UJ	NA
Chloroform	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Chloromethane	13.000	ug/kg D U	11.000	ug/kg D UJ	NA
Dibromochloromethane	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Ethylbenzene	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Methylene chloride	6.000	ug/kg D U	12.000	ug/kg D UJ	NA
Styrene	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Tetrachloroethene	6.000	ug/kg D U	30.000	ug/kg D U	NA
Toluene	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Trichloroethene	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
Vinyl Acetate	13.000	ug/kg D U	11.000	ug/kg D UJ	NA
Vinyl chloride	13.000	ug/kg D U	11.000	ug/kg D UJ	NA
Xylenes, Total	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
cis-1,3-Dichloropropene	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
trans-1,3-Dichloropropene	6.000	ug/kg D U	5.000	ug/kg D UJ	NA
<u>Semivolatile Organics</u>					
1,2,4-Trichlorobenzene	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
1,2-Dichlorobenzene	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
1,3-Dichlorobenzene	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
1,4-Dichlorobenzene	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
2,4,5-Trichlorophenol	2100.000	ug/kg D U	1800.000	ug/kg D U	NA
2,4,6-Trichlorophenol	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
2,4-Dichlorophenol	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
2,4-Dimethylphenol	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
2,4-Dinitrophenol	2100.000	ug/kg D U	1800.000	ug/kg D UJ	NA
2,4-Dinitrotoluene	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
2,6-Dinitrotoluene	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
2-Chloronaphthalene	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
2-Chlorophenol	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
2-Methylnaphthalene	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
2-Methylphenol	430.000	ug/kg D U	360.000	ug/kg D UJ	NA
2-Nitroaniline	2100.000	ug/kg D U	1800.000	ug/kg D UJ	NA

TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1722	1808	1808
SAMPLE NUMBER	067259	067394	067395
SAMPLING DATE	14-16.5 07/30/91	3-4.5 08/27/91	4.5-6 08/27/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
2-Nitrophenol	430.000	ug/kg D U	360.000
3,3'-Dichlorobenzidine	850.000	ug/kg D UJ	730.000
3-Nitroaniline	2100.000	ug/kg D UJ	1800.000
4,6-Dinitro-2-methylphenol	2100.000	ug/kg D U	1800.000
4-Bromophenyl phenyl ether	430.000	ug/kg D U	360.000
4-Chloro-3-methylphenol	430.000	ug/kg D U	360.000
4-Chlorophenylphenyl ether	430.000	ug/kg D UU	360.000
4-Methylphenol	430.000	ug/kg D UU	360.000
4-Nitroaniline	2100.000	ug/kg D UJ	1800.000
4-Nitrophenol	2100.000	ug/kg D UJ	1800.000
Acenaphthene	430.000	ug/kg D UU	250.000
Acenaphthylene	430.000	ug/kg D UU	360.000
Anthracene	430.000	ug/kg D UU	270.000
Benzo(a)anthracene	430.000	ug/kg D UUU	910.000
Benzo(a)pyrene	430.000	ug/kg D UUU	700.000
Benzo(b)fluoranthene	430.000	ug/kg D UUU	1500.000
Benzo(g,h,i)perylene	430.000	ug/kg D UUU	490.000
Benzo(k)fluoranthene	430.000	ug/kg D UUU	360.000
Benzoic acid	2100.000	ug/kg D UU	1800.000
Benzyl alcohol	430.000	ug/kg D UUU	360.000
Butyl benzyl phthalate	430.000	ug/kg D UUU	360.000
Chrysene	430.000	ug/kg D UUU	1100.000
Di-n-butyl phthalate	430.000	ug/kg D UUU	360.000
Di-n-octyl phthalate	430.000	ug/kg D UUU	360.000
Dibenzo(a,h)anthracene	430.000	ug/kg D UUU	92.000
Dibenzofuran	430.000	ug/kg D UUU	160.000
Diethyl phthalate	430.000	ug/kg D UUU	360.000
Dimethyl phthalate	430.000	ug/kg D UUU	360.000
Fluoranthene	430.000	ug/kg D UUU	2200.000
Fluorene	430.000	ug/kg D UUU	250.000
Hexachlorobenzene	430.000	ug/kg D UUU	360.000
Hexachlorobutadiene	430.000	ug/kg D UUU	360.000
Hexachlorocyclopentadiene	430.000	ug/kg D UUU	360.000
Hexachloroethane	430.000	ug/kg D UUU	360.000
Indeno(1,2,3-cd)pyrene	430.000	ug/kg D UUU	440.000
Isophorone	430.000	ug/kg D UUU	360.000
Methyl parathion	100.000	ug/kg C UU	100.000
N-Nitroso-di-n-propylamine	430.000	ug/kg D UU	360.000
N-Nitrosodiphenylamine	430.000	ug/kg D UU	360.000
Naphthalene	430.000	ug/kg D UU	41.000
Nitrobenzene	430.000	ug/kg D UU	360.000
O,O,O-Triethylphosphorothioate	100.000	ug/kg D	100.000

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1722	SAMPLE NUMBER	067259	SAMPLING DATE	14-16.5 07/30/91	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>																	
Parathion	100.000	ug/kg	C	U						100.000	ug/kg	C	U				
Pentachlorophenol	2100.000	ug/kg	D	U						1800.000	ug/kg	D	U				
Phenanthrene	430.000	ug/kg	D	U						1900.000	ug/kg	D	J				
Phenol	430.000	ug/kg	D	U						360.000	ug/kg	D	U				
Pyrene	430.000	ug/kg	D	U						1800.000	ug/kg	D	J				
Sulfotep	100.000	ug/kg	C	U						100.000	ug/kg	C	U				
bis(2-Chloroethoxy)methane	430.000	ug/kg	D	U						360.000	ug/kg	D	UJ				
bis(2-Chloroethyl)ether	430.000	ug/kg	D	U						360.000	ug/kg	D	UJ				
bis(2-Chloroisopropyl) ether	430.000	ug/kg	D	U						360.000	ug/kg	D	UJ				
bis(2-Ethylhexyl) phthalate	430.000	ug/kg	D	U						360.000	ug/kg	D	UJ				
p-Chloroaniline	430.000	ug/kg	D	UJ						360.000	ug/kg	D	UJ				
<u>Pesticide Organics/PCBs</u>																	
4,4'-DDD	21.000	ug/kg	D	U						18.000	ug/kg	D	U				
4,4'-DDE	21.000	ug/kg	D	U						18.000	ug/kg	D	U				
4,4'-DDT	21.000	ug/kg	D	U						18.000	ug/kg	D	U				
Aldrin	10.000	ug/kg	D	U						8.900	ug/kg	D	U				
Aroclor-1016	100.000	ug/kg	D	U						89.000	ug/kg	D	U				
Aroclor-1221	100.000	ug/kg	D	U						89.000	ug/kg	D	U				
Aroclor-1232	100.000	ug/kg	D	U						89.000	ug/kg	D	U				
Aroclor-1242	100.000	ug/kg	D	U						89.000	ug/kg	D	U				
Aroclor-1248	100.000	ug/kg	D	U						89.000	ug/kg	D	U				
Aroclor-1254	210.000	ug/kg	D	U						150.000	ug/kg	D	U				
Aroclor-1260	210.000	ug/kg	D	U						180.000	ug/kg	D	U				
Azinphosmethyl	200.000	ug/kg	C	U						100.000	ug/kg	C	U				
Demeton	200.000	ug/kg	C	U						200.000	ug/kg	C	U				
Diazinon	100.000	ug/kg	C	U						100.000	ug/kg	C	U				
Dieldrin	21.000	ug/kg	D	U						18.000	ug/kg	D	U				
Dimethoate	100.000	ug/kg	C	U						100.000	ug/kg	C	U				
Disulfoton	100.000	ug/kg	C	U						100.000	ug/kg	C	U				
Endosulfan II	21.000	ug/kg	D	U						18.000	ug/kg	D	U				
Endosulfan sulfate	21.000	ug/kg	D	U						18.000	ug/kg	D	U				
Endosulfan-I	10.000	ug/kg	D	U						8.900	ug/kg	D	U				
Endrin	21.000	ug/kg	D	U						18.000	ug/kg	D	U				
Endrin ketone	21.000	ug/kg	D	U						18.000	ug/kg	D	U				
Ethion	100.000	ug/kg	C	U						100.000	ug/kg	C	U				
Famphur	100.000	ug/kg	C	U						100.000	ug/kg	C	U				
Heptachlor	10.000	ug/kg	D	U						8.900	ug/kg	D	U				
Heptachlor epoxide	10.000	ug/kg	D	U						8.900	ug/kg	D	U				
Malathion	100.000	ug/kg	C	U						100.000	ug/kg	C	U				
Methoxychlor	100.000	ug/kg	D	U						89.000	ug/kg	D	U				

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1722	1808	1808		
SAMPLE NUMBER	067259	067394	067395		
SAMPLING DATE	14-16.5 07/30/91	3-4.5 08/27/91	4.5-6 08/27/91		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
<u>Pesticide Organics/PCBs</u>					
Phorate	100.000	ug/kg C U	100.000	ug/kg C U	NA
Tetraethylpyrophosphate	400.000	ug/kg C UU	400.000	ug/kg C UU	NA
Thionazin	100.000	ug/kg C UU	100.000	ug/kg C UU	NA
Toxaphene	210.000	ug/kg D UU	180.000	ug/kg D UU	NA
alpha-BHC	10.000	ug/kg D UU	8.900	ug/kg D UU	NA
alpha-Chlordane	100.000	ug/kg D UU	89.000	ug/kg D UU	NA
beta-BHC	10.000	ug/kg D UU	8.900	ug/kg D UU	NA
delta-BHC	10.000	ug/kg D UU	8.900	ug/kg D UU	NA
gamma-BHC (Lindane)	10.000	ug/kg D UU	8.900	ug/kg D UU	NA
gamma-Chlordane	100.000	ug/kg D U	89.000	ug/kg D U	NA
<u>Dioxin Furan</u>					
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.047	ug/kg E U	0.075	ug/kg E U	NA
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.024	ug/kg E UU	0.075	ug/kg E UU	NA
1,2,3,4,7,8,9-Heptachlorodibenzo furan	0.030	ug/kg E UU	0.110	ug/kg E UU	NA
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.019	ug/kg E UU	0.120	ug/kg E UU	NA
1,2,3,4,7,8-Hexachlorodibenzofuran	0.014	ug/kg E UU	0.050	ug/kg E UU	NA
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.015	ug/kg E UU	0.095	ug/kg E UU	NA
1,2,3,6,7,8-Hexachlorodibenzofuran	0.014	ug/kg E UU	0.045	ug/kg E UU	NA
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.016	ug/kg E UU	0.100	ug/kg E UU	NA
1,2,3,7,8,9-Hexachlorodibenzofuran	0.017	ug/kg E UU	0.060	ug/kg E UU	NA
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.025	ug/kg E UU	0.090	ug/kg E UU	NA
1,2,3,7,8-Pentachlorodibenzofuran	0.011	ug/kg E UU	0.042	ug/kg E UU	NA
2,3,4,6,7,8-Hexachlorodibenzo furan	0.017	ug/kg E UU	0.055	ug/kg E UU	NA
2,3,4,7,8-Pentachlorodibenzo furan	0.010	ug/kg E UU	0.046	ug/kg E UU	NA
2,3,7,8-TCDD	0.190	ug/kg E UU	0.140	ug/kg E UU	NA
2,3,7,8-TCDF	0.036	ug/kg E UU	0.095	ug/kg E UU	NA
Heptachlorodibenzo-p-dioxin	0.047	ug/kg E UU	0.075	ug/kg E UU	NA
Heptachlorodibenzofuran	0.027	ug/kg E UU	0.085	ug/kg E UU	NA
Hexachlorodibenzo-p-dioxin	0.017	ug/kg E UU	0.110	ug/kg E UU	NA
Hexachlorodibenzofuran	0.015	ug/kg E UU	0.050	ug/kg E UU	NA
Octachlorodibenzo-p-dioxin	0.050	ug/kg E UU	0.310	ug/kg E UU	NA
Octachlorodibenzofuran	0.058	ug/kg E UU	0.075	ug/kg E UU	NA
Pentachlorodibenzo-p-dioxin	0.025	ug/kg E UU	0.090	ug/kg E UU	NA
Pentachlorodibenzofuran	0.010	ug/kg E UU	0.044	ug/kg E UU	NA
Tetrachlorodibenzo-p-dioxin	0.010	ug/kg E U	0.031	ug/kg E UU	NA
Tetrachlorodibenzofuran	0.011	ug/kg E U	0.038	ug/kg E UU	NA
<u>General Chemistry</u>					
Total Organic Carbon	NA	NA	20463.000 mg/kg C -		

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1808	1808
SAMPLE NUMBER	067396	067405	067406
SAMPLING DATE	7.5-9	10.5-12	13.5-15
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Inorganics			
Aluminum	11600.000	mg/kg D U	NA
Antimony	10.400	mg/kg D J	NA
Arsenic	5.300	mg/kg D -	NA
Barium	95.100	mg/kg D -	NA
Beryllium	0.880	mg/kg D -	NA
Boron	24.400	mg/kg D UJ	NA
Cadmium	2.400	mg/kg D -	NA
Calcium	60600.000	mg/kg D -	NA
Chromium	29.800	mg/kg D -	NA
Cobalt	13.900	mg/kg D -	NA
Copper	21.300	mg/kg D -	NA
Cyanide	0.120	mg/kg D U	NA
Iron	19100.000	mg/kg D -	NA
Lead	9.300	mg/kg D -	NA
Magnesium	14900.000	mg/kg D -	NA
Manganese	425.000	mg/kg D J	NA
Mercury	0.120	mg/kg D UJ	NA
Molybdenum	13.700	mg/kg D -	NA
Nickel	25.800	mg/kg D -	NA
Potassium	1160.000	mg/kg D -	NA
Selenium	0.500	mg/kg D U	NA
Silicon	806.000	mg/kg D -	NA
Silver	12.500	mg/kg D -	NA
Sodium	121.000	mg/kg D -	NA
Thallium	0.500	mg/kg D UJ	NA
Tin	48.700	mg/kg D U	NA
Vanadium	32.100	mg/kg D U	NA
Zinc	51.400	mg/kg D -	NA
Volatile Organics			
1,1,1,2-Tetrachloroethane	12.000	ug/kg D UJ	NA
1,1,1-Trichloroethane	6.000	ug/kg D UJ	NA
1,1,2,2-Tetrachloroethane	6.000	ug/kg D UJ	NA
1,1,2-Trichloroethane	6.000	ug/kg D UJ	NA
1,1-Dichloroethane	6.000	ug/kg D UJ	NA
1,1-Dichloroethene	6.000	ug/kg D UJ	NA
1,2,3-Trichloropropene	12.000	ug/kg C U	NA
1,2-Dibromo-3-chloropropane	12.000	ug/kg D UJ	NA
1,2-Dibromoethane	12.000	ug/kg D U	NA
1,2-Dichloroethane	6.000	ug/kg D UJ	NA
1,2-Dichloroethene	6.000	ug/kg D UJ	NA

TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1808	1808
SAMPLE NUMBER	067396	067405	067406
SAMPLING DATE	7.5-9 08/27/91	10.5-12 08/27/91	13.5-15 08/27/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Volatile Organics</u>			
1,2-Dichloropropane	6.000	ug/kg D UJ	NA
1,4-Dioxane	66.000	ug/kg D J	NA
2-Butanone	12.000	ug/kg D UJ	NA
2-Chloro-1,3-butadiene	12.000	ug/kg D UJ	NA
2-Hexanone	12.000	ug/kg D UJ	NA
3-Chloropropene	12.000	ug/kg D UJ	NA
4-Methyl-2-pentanone	1.000	ug/kg D J	NA
Acetone	19.000	ug/kg D UJ	NA
Acetonitrile	25.000	ug/kg D UJ	NA
Acrolein	25.000	ug/kg D R	NA
Acrylonitrile	25.000	ug/kg D UJ	NA
Benzene	6.000	ug/kg D UJ	NA
Bromodichloromethane	6.000	ug/kg D UJ	NA
Bromoform	6.000	ug/kg D UJ	NA
Bromomethane	12.000	ug/kg D UJ	NA
Carbon Tetrachloride	6.000	ug/kg D UJ	NA
Carbon disulfide	6.000	ug/kg D UJ	NA
Chlorobenzene	6.000	ug/kg D UJ	NA
Chloroethane	12.000	ug/kg D UJ	NA
Chloroform	6.000	ug/kg D UJ	NA
Chloromethane	12.000	ug/kg D UJ	NA
Dibromochloromethane	6.000	ug/kg D UJ	NA
Dibromomethane	12.000	ug/kg D UJ	NA
Dichlorodifluoromethane	250.000	ug/kg D R	NA
Ethyl cyanide	12.000	ug/kg D UJ	NA
Ethyl methacrylate	12.000	ug/kg D UJ	NA
Ethylbenzene	6.000	ug/kg D UJ	NA
Iodomethane	12.000	ug/kg D UJ	NA
Isobutyl alcohol	250.000	ug/kg D R	NA
Methacrylonitrile	12.000	ug/kg D UJ	NA
Methyl methacrylate	12.000	ug/kg D UJ	NA
Methylene chloride	12.000	ug/kg D UJ	NA
Pyridine	3.000	ug/kg D J	NA
Styrene	6.000	ug/kg D UJ	NA
Tetrachloroethene	6.000	ug/kg D UJ	NA
Toluene	6.000	ug/kg D UJ	NA
Trichloroethene	6.000	ug/kg D UJ	NA
Trichlorofluoromethane	12.000	ug/kg D R	NA
Vinyl Acetate	12.000	ug/kg D UJ	NA
Vinyl chloride	12.000	ug/kg D UJ	NA
Xylenes, Total	6.000	ug/kg D UJ	NA
cis-1,3-Dichloropropene	6.000	ug/kg D UJ	NA

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1808	1808
SAMPLE NUMBER	067396	067405	067406
SAMPLING DATE	7.5-9	10.5-12	13.5-15
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Volatile Organics</u>			
trans-1,3-Dichloropropene	6.000	ug/kg D UJ	NA
trans-1,4-Dichloro-2-butene	12.000	ug/kg D UJ	NA
<u>Semivolatile Organics</u>			
1,2,4,5-Tetrachlorobenzene	840.000	ug/kg D R	NA
1,2,4-Trichlorobenzene	840.000	ug/kg D R	NA
1,2-Dichlorobenzene	840.000	ug/kg D R	NA
1,3,5-Trinitrobenzene	840.000	ug/kg D R	NA
1,3-Dichlorobenzene	840.000	ug/kg D R	NA
1,3-Dinitrobenzene	840.000	ug/kg D R	NA
1,4-Dichlorobenzene	840.000	ug/kg D R	NA
1,4-Naphthoquinone	840.000	ug/kg D R	NA
1-Naphthylamine	10000.000	ug/kg D R	NA
2,3,4,6-Tetrachlorophenol	840.000	ug/kg D R	NA
2,4,5-Trichlorophenol	4000.000	ug/kg D R	NA
2,4,6-Trichlorophenol	840.000	ug/kg D R	NA
2,4-Dichlorophenol	840.000	ug/kg D R	NA
2,4-Dimethylphenol	840.000	ug/kg D R	NA
2,4-Dinitrophenol	4000.000	ug/kg D R	NA
2,4-Dinitrotoluene	840.000	ug/kg D R	NA
2,6-Dichlorophenol	840.000	ug/kg D R	NA
2,6-Dinitrotoluene	840.000	ug/kg D R	NA
2-Acetylaminofluorene	840.000	ug/kg D R	NA
2-Chloronaphthalene	840.000	ug/kg D R	NA
2-Chlorophenol	840.000	ug/kg D R	NA
2-Methylnaphthalene	840.000	ug/kg D R	NA
2-Methylphenol	840.000	ug/kg D R	NA
2-Naphthylamine	14000.000	ug/kg D R	NA
2-Nitroaniline	4000.000	ug/kg D R	NA
2-Nitrophenol	840.000	ug/kg D R	NA
2-Picoline	5800.000	ug/kg D R	NA
3,3'-Dichlorobenzidine	1700.000	ug/kg D R	NA
3,3'-Dimethylbenzidine	6800.000	ug/kg D R	NA
3-Methylcholanthrene	2500.000	ug/kg D R	NA
3-Methylphenol	840.000	ug/kg D R	NA
3-Nitroaniline	4000.000	ug/kg D R	NA
4,6-Dinitro-2-methylphenol	4000.000	ug/kg D R	NA
4-Aminobiphenyl	4200.000	ug/kg D R	NA
4-Bromophenyl phenyl ether	840.000	ug/kg D R	NA
4-Chloro-3-methylphenol	840.000	ug/kg D R	NA
4-Chlorophenylphenyl ether	840.000	ug/kg D R	NA

TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1808	1808
SAMPLE NUMBER	067396	067405	067406
	7.5-9	10.5-12	13.5-15
SAMPLING DATE	08/27/91	08/27/91	08/27/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
4-Methylphenol	840.000	ug/kg D R	NA
4-Nitroaniline	4000.000	ug/kg D R	NA
4-Nitrophenol	4000.000	ug/kg D R	NA
4-Nitroquinoline-1-oxide	840.000	ug/kg D R	NA
5-Nitro-o-toluidine	1700.000	ug/kg D R	NA
7,12-Dimethylbenz(a)anthracene	1700.000	ug/kg D R	NA
Acenaphthene	98.000	ug/kg D J	NA
Acenaphthylene	840.000	ug/kg D R	NA
Acetophenone	840.000	ug/kg D R	NA
Aniline	4300.000	ug/kg D R	NA
Anthracene	260.000	ug/kg D J	NA
Aramite	840.000	ug/kg D R	NA
Benzo(a)anthracene	600.000	ug/kg D J	NA
Benzo(a)pyrene	600.000	ug/kg D J	NA
Benzo(b)fluoranthene	560.000	ug/kg D J	NA
Benzo(g,h,i)perylene	480.000	ug/kg D J	NA
Benzo(k)fluoranthene	600.000	ug/kg D J	NA
Benzoic acid	4000.000	ug/kg D R	NA
Benzyl alcohol	840.000	ug/kg D R	NA
Butyl benzyl phthalate	840.000	ug/kg D R	NA
Chrysene	810.000	ug/kg D J	NA
Di-n-butyl phthalate	840.000	ug/kg D R	NA
Di-n-octyl phthalate	840.000	ug/kg D R	NA
Diallate	840.000	ug/kg D R	NA
Dibenzo(a,h)anthracene	180.000	ug/kg D J	NA
Dibenzofuran	840.000	ug/kg D R	NA
Diethyl phthalate	680.000	ug/kg D J	NA
Dimethyl phthalate	840.000	ug/kg D R	NA
Diphenylamine	840.000	ug/kg D R	NA
Ethyl methanesulfonate	840.000	ug/kg D R	NA
Fluoranthene	1600.000	ug/kg D J	NA
Fluorene	88.000	ug/kg D J	NA
Hexachlorobenzene	840.000	ug/kg D R	NA
Hexachlorobutadiene	840.000	ug/kg D R	NA
Hexachlorocyclopentadiene	840.000	ug/kg D R	NA
Hexachloroethane	840.000	ug/kg D R	NA
Hexachlorophene	4300.000	ug/kg D R	NA
Hexachloropropene	1700.000	ug/kg D R	NA
Indeno(1,2,3-cd)pyrene	430.000	ug/kg D J	NA
Isophorone	840.000	ug/kg D R	NA
Isosafrole	840.000	ug/kg D R	NA
Methapyrilenone	3400.000	ug/kg D R	NA

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1808	1808
SAMPLE NUMBER	067396	067405	067406
SAMPLING DATE	7.5-9	10.5-12	13.5-15
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Methyl methanesulfonate	840.000	ug/kg D R	NA
Methyl parathion	100.000	ug/kg C U	NA
N-Nitroso-di-n-propylamine	840.000	ug/kg D R	NA
N-Nitrosodi-n-butylamine	1700.000	ug/kg D R	NA
N-Nitrosodiethylamine	840.000	ug/kg D R	NA
N-Nitrosodimethylamine	840.000	ug/kg D R	NA
N-Nitrosodiphenylamine	840.000	ug/kg D R	NA
N-Nitrosomethylamine	840.000	ug/kg D R	NA
N-Nitrosomorpholine	840.000	ug/kg D R	NA
N-Nitrosopiperidine	840.000	ug/kg D R	NA
N-Nitrosopyrrolidine	840.000	ug/kg D R	NA
Naphthalene	840.000	ug/kg D R	NA
Nitrobenzene	840.000	ug/kg D R	NA
O,O,O-Triethylphosphorothioate	840.000	ug/kg D R	NA
Parathion	100.000	ug/kg C U	NA
Pentachlorobenzene	1700.000	ug/kg D R	NA
Pentachloroethane	1700.000	ug/kg D R	NA
Pentachloronitrobenzene	1700.000	ug/kg D R	NA
Pentachlorophenol	4000.000	ug/kg D UJ	NA
Phenacetin	840.000	ug/kg D R	NA
Phenanthrene	1200.000	ug/kg D J	NA
Phenol	840.000	ug/kg D R	NA
Pronamide	2500.000	ug/kg D R	NA
Pyrene	1400.000	ug/kg D J	NA
Safrole	840.000	ug/kg C U	NA
Sulfotep	100.000	ug/kg C U	NA
a,a-Dimethylphenethylamine	840.000	ug/kg D R	NA
bis(2-Chloroethoxy)methane	840.000	ug/kg D R	NA
bis(2-Chloroethyl)ether	840.000	ug/kg D R	NA
bis(2-Chloroisopropyl) ether	840.000	ug/kg D R	NA
bis(2-Ethylhexyl) phthalate	840.000	ug/kg D R	NA
o-Toluidine	840.000	ug/kg D R	NA
p-Chloroaniline	840.000	ug/kg D R	NA
p-Dimethylaminoazobenzene	2500.000	ug/kg D R	NA
p-Phenylenediamine	4200.000	ug/kg D R	NA
<u>Hericide Organics</u>			
2,4,5-T	48.000	ug/kg D U	NA
2,4,5-TP (Silvex)	45.000	ug/kg D U	NA
2,4-D	250.000	ug/kg D U	NA
Dinoseb	1700.000	ug/kg D U	NA

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1808	1808
SAMPLE NUMBER	067396	067405	067406
SAMPLING DATE	7.5-9	10.5-12	13.5-15
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	200.000	ug/kg D U	NA
4,4'-DDE	200.000	ug/kg D U	NA
4,4'-DDT	200.000	ug/kg D U	NA
Aldrin	100.000	ug/kg D U	NA
Aroclor-1016	1000.000	ug/kg D U	NA
Aroclor-1221	1000.000	ug/kg D U	NA
Aroclor-1232	1000.000	ug/kg D U	NA
Aroclor-1242	1000.000	ug/kg D U	NA
Aroclor-1248	1000.000	ug/kg D U	NA
Aroclor-1254	2000.000	ug/kg D U	NA
Aroclor-1260	2000.000	ug/kg D U	NA
Azinphosmethyl	100.000	ug/kg C	NA
Chlorobenzilate	200.000	ug/kg D U	NA
Demeton	200.000	ug/kg C	NA
Diazinon	100.000	ug/kg C	NA
Dieldrin	200.000	ug/kg D U	NA
Dimethoate	100.000	ug/kg C	NA
Disulfoton	100.000	ug/kg C	NA
Endosulfan II	200.000	ug/kg D U	NA
Endosulfan sulfate	200.000	ug/kg D U	NA
Endosulfan-I	100.000	ug/kg D U	NA
Endrin	200.000	ug/kg D U	NA
Endrin ketone	200.000	ug/kg D U	NA
Ethion	100.000	ug/kg C	NA
Famphur	100.000	ug/kg C	NA
Heptachlor	100.000	ug/kg D U	NA
Heptachlor epoxide	100.000	ug/kg D U	NA
Isodrin	100.000	ug/kg D U	NA
Kepone	200.000	ug/kg D U	NA
Malathion	100.000	ug/kg C	NA
Methoxychlor	1000.000	ug/kg D U	NA
Phorate	100.000	ug/kg C	NA
Tetraethylpyrophosphate	400.000	ug/kg C	NA
Thionazin	100.000	ug/kg C	NA
Toxaphene	2000.000	ug/kg D U	NA
alpha-BHC	100.000	ug/kg D U	NA
alpha-Chlordane	1000.000	ug/kg D U	NA
beta-BHC	100.000	ug/kg D U	NA
delta-BHC	100.000	ug/kg D U	NA
gamma-BHC (Lindane)	100.000	ug/kg D U	NA
gamma-Chlordane	1000.000	ug/kg D U	NA
<u>Dioxin Furan</u>			
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.160	ug/kg E U	NA

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1808	1808
SAMPLE NUMBER	067396	067405	067406
SAMPLING DATE	7.5-9	10.5-12	13.5-15
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Dioxin Furan</u>			
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.070	ug/kg E	NA
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.100	ug/kg E	NA
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.220	ug/kg E	NA
1,2,3,4,7,8-Hexachlorodibenzofuran	0.080	ug/kg E	NA
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.180	ug/kg E	NA
1,2,3,6,7,8-Hexachlorodibenzofuran	0.070	ug/kg E	NA
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.190	ug/kg E	NA
1,2,3,7,8,9-Hexachlorodibenzofuran	0.090	ug/kg E	NA
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.220	ug/kg E	NA
1,2,3,7,8-Pentachlorodibenzofuran	0.060	ug/kg E	NA
2,3,4,6,7,8-Hexachlorodibenzofuran	0.080	ug/kg E	NA
2,3,4,7,8-Pentachlorodibenzofuran	0.065	ug/kg E	NA
2,3,7,8-TCDD	0.180	ug/kg E	NA
2,3,7,8-TCDF	2.400	ug/kg E	NA
Heptachlorodibenzo-p-dioxin	0.900	ug/kg E	NA
Heptachlorodibenzofuran	0.085	ug/kg E	NA
Hexachlorodibenzo-p-dioxin	0.190	ug/kg E	NA
Hexachlorodibenzofuran	0.080	ug/kg E	NA
Octachlorodibenzo-p-dioxin	2.700	ug/kg E	NA
Octachlorodibenzofuran	0.100	ug/kg E	NA
Pentachlorodibenzo-p-dioxin	0.220	ug/kg E	NA
Pentachlorodibenzofuran	0.060	ug/kg E	NA
Tetrachlorodibenzo-p-dioxin	0.027	ug/kg E	NA
Tetrachlorodibenzofuran	0.045	ug/kg E UJ	NA
<u>General Chemistry</u>			
Sulfide	7.270	mg/kg C -	NA
Total Organic Carbon	NA	27071.000	mg/kg C -
			NA
			10912.000 mg/kg C -

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	SAMPLE NUMBER	1888	SAMPLING DATE	1888							
SAMPLE NUMBER	067401		067714		067717							
	15-16.5		0-1.5		5-6							
SAMPLING DATE	08/27/91		02/23/92		02/23/92							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	8670.000	mg/kg	D	-	20800.000	mg/kg	D	-	25200.000	mg/kg	D	-
Antimony	20.000	mg/kg	D	J	22.000	mg/kg	D	-	14.800	mg/kg	D	J
Arsenic	3.800	mg/kg	D	-	9.900	mg/kg	D	-	12.500	mg/kg	D	-
Barium	57.200	mg/kg	D	-	160.000	mg/kg	D	-	178.000	mg/kg	D	-
Beryllium	0.750	mg/kg	D	-	1.600	mg/kg	D	-	1.600	mg/kg	D	-
Boron	31.300	mg/kg	D	J	NA				NA			
Cadmium	4.000	mg/kg	D	-	6.500	mg/kg	D	-	5.600	mg/kg	D	-
Calcium	103000.000	mg/kg	D	-	141000.000	mg/kg	D	J	53100.000	mg/kg	D	J
Chromium	29.800	mg/kg	D	-	51.800	mg/kg	D	-	49.300	mg/kg	D	-
Cobalt	12.900	mg/kg	D	-	23.500	mg/kg	D	-	26.000	mg/kg	D	-
Copper	20.200	mg/kg	D	U	41.500	mg/kg	D	-	40.500	mg/kg	D	-
Cyanide	0.110	mg/kg	D	U	0.110	mg/kg	D	-	0.120	mg/kg	D	U
Iron	17300.000	mg/kg	D	-	36800.000	mg/kg	D	-	42600.000	mg/kg	D	-
Lead	6.500	mg/kg	D	J	30.600	mg/kg	D	-	28.300	mg/kg	D	-
Magnesium	29400.000	mg/kg	D	-	31500.000	mg/kg	D	-	20200.000	mg/kg	D	-
Manganese	408.000	mg/kg	D	J	1140.000	mg/kg	D	-	984.000	mg/kg	D	J
Mercury	0.110	mg/kg	D	UJ	0.110	mg/kg	D	UJ	0.120	mg/kg	D	U
Molybdenum	14.000	mg/kg	D	-	26.800	mg/kg	D	-	29.300	mg/kg	D	-
Nickel	27.200	mg/kg	D	-	47.100	mg/kg	D	-	39.300	mg/kg	D	-
Potassium	1670.000	mg/kg	D	-	2430.000	mg/kg	D	-	2090.000	mg/kg	D	-
Selenium	0.460	mg/kg	D	U	0.670	mg/kg	D	-	0.730	mg/kg	D	U
Silicon	773.000	mg/kg	D	-	1970.000	mg/kg	D	-	2620.000	mg/kg	D	-
Silver	15.600	mg/kg	D	-	19.700	mg/kg	D	-	12.600	mg/kg	D	J
Sodium	169.000	mg/kg	D	-	309.000	mg/kg	D	-	218.000	mg/kg	D	-
Thallium	0.460	mg/kg	D	UJ	0.450	mg/kg	D	U	0.800	mg/kg	D	J
Tin	44.900	mg/kg	D	UJ	NA				47.500	mg/kg	D	U
Vanadium	28.400	mg/kg	D	-	57.300	mg/kg	D	-	68.800	mg/kg	D	-
Zinc	44.600	mg/kg	D	-	92.700	mg/kg	D	J	108.000	mg/kg	D	J
<u>Volatile Organics</u>												
1,1,1,2-Tetrachloroethane	NA				11.400	ug/kg	D	U	12.100	ug/kg	D	U
1,1,1-Trichloroethane	6.000	ug/kg	D	UJ	6.000	ug/kg	D	UJ	6.000	ug/kg	D	U
1,1,2,2-Tetrachloroethane	6.000	ug/kg	D	UJ	6.000	ug/kg	D	UJ	6.000	ug/kg	D	U
1,1,2-Trichloroethane	6.000	ug/kg	D	UJ	6.000	ug/kg	D	UJ	6.000	ug/kg	D	U
1,1-Dichloroethane	6.000	ug/kg	D	UJ	6.000	ug/kg	D	UJ	6.000	ug/kg	D	U
1,1-Dichloroethene	6.000	ug/kg	D	UJ	6.000	ug/kg	D	UJ	6.000	ug/kg	D	U
1,2,3-Trichloropropane	NA				11.400	ug/kg	C	U	12.100	ug/kg	C	U
1,2-Dibromo-3-chloropropane	NA				11.400	ug/kg	D	U	12.100	ug/kg	D	U
1,2-Dibromoethane	NA				11.400	ug/kg	D	U	12.100	ug/kg	D	U
1,2-Dichloroethane	6.000	ug/kg	D	UJ	6.000	ug/kg	D	UJ	6.000	ug/kg	D	U
1,2-Dichloroethene	6.000	ug/kg	D	UJ	6.000	ug/kg	D	UJ	3.000	ug/kg	D	J

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1888	1888			
SAMPLE NUMBER	067401	067714	067717			
SAMPLING DATE	15-16.5 08/27/91	0-1.5 02/23/92	5-6 02/23/92			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
1,2-Dichloropropane	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
1,4-Dioxane	NA		229.000	ug/kg D R	242.000	ug/kg D R
2-Butanone	11.000	ug/kg D UJ	11.000	ug/kg D UJ	2.000	ug/kg D UJ
2-Chloro-1,3-butadiene	NA		11.400	ug/kg D U	12.100	ug/kg D U
2-Hexanone	11.000	ug/kg D UJ	11.000	ug/kg D UJ	12.000	ug/kg D UJ
3-Chloropropene	NA		11.400	ug/kg D U	12.100	ug/kg D U
4-Methyl-2-pentanone	11.000	ug/kg D UJ	11.000	ug/kg D UJ	12.000	ug/kg D UJ
Acetone	56.000	ug/kg D UJ	11.000	ug/kg D UJ	7.000	ug/kg D -
Acetonitrile	NA		22.900	ug/kg D U	24.200	ug/kg D U
Acrolein	NA		22.900	ug/kg D U	24.200	ug/kg D U
Acrylonitrile	NA		22.900	ug/kg D U	24.200	ug/kg D U
Benzene	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Bromodichloromethane	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Bromform	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Bromomethane	11.000	ug/kg D UJ	11.000	ug/kg D UJ	12.000	ug/kg D UJ
Carbon Tetrachloride	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Carbon disulfide	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Chlorobenzene	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Chloroethane	11.000	ug/kg D UJ	11.000	ug/kg D U	12.000	ug/kg D U
Chloroform	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Chloromethane	11.000	ug/kg D UJ	11.000	ug/kg D U	12.000	ug/kg D U
Dibromochloromethane	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Dibromomethane	NA		11.400	ug/kg D U	12.100	ug/kg D U
Dichlorodifluoromethane	NA		229.000	ug/kg D R	242.000	ug/kg D R
Ethyl cyanide	NA		11.400	ug/kg D U	12.100	ug/kg D U
Ethyl methacrylate	NA		11.400	ug/kg D U	12.100	ug/kg D U
Ethylbenzene	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Iodomethane	NA		11.400	ug/kg D U	12.100	ug/kg D U
Isobutyl alcohol	NA		229.000	ug/kg D R	242.000	ug/kg D U
Methacrylonitrile	NA		11.400	ug/kg D U	12.100	ug/kg D U
Methyl methacrylate	NA		11.400	ug/kg D U	12.100	ug/kg D U
Methylene chloride	26.000	ug/kg D UJ	6.000	ug/kg D -	6.000	ug/kg D -
Pyridine	NA		NA		410.000	ug/kg D U
Styrene	2.000	ug/kg D J	6.000	ug/kg D U	6.000	ug/kg D U
Tetrachloroethene	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Toluene	1.000	ug/kg D J	2.000	ug/kg D U	6.000	ug/kg D U
Trichloroethene	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
Trichlorofluoromethane	NA		11.400	ug/kg D U	12.100	ug/kg D U
Vinyl Acetate	11.000	ug/kg D UJ	11.000	ug/kg D U	12.000	ug/kg D U
Vinyl chloride	11.000	ug/kg D UJ	11.000	ug/kg D U	12.000	ug/kg D U
Xylenes, Total	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U
cis-1,3-Dichloropropene	6.000	ug/kg D UJ	6.000	ug/kg D U	6.000	ug/kg D U

TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1888	1888
SAMPLE NUMBER	067401	067714	067717
SAMPLING DATE	15-16.5 08/27/91	0-1.5 02/23/92	5-6 02/23/92
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>			
trans-1,3-Dichloropropene	6.000	ug/kg D UJ	
trans-1,4-Dichloro-2-butene	NA		11.400 ug/kg D U
			6.000 ug/kg D UJ
<u>Semivolatile Organics</u>			
1,2,4,5-Tetrachlorobenzene	NA		NA
1,2,4-Trichlorobenzene	380.000	ug/kg D UJ	380.000 ug/kg D U
1,2-Dichlorobenzene	380.000	ug/kg D UJ	380.000 ug/kg D U
1,3,5-Trinitrobenzene	NA		NA
1,3-Dichlorobenzene	380.000	ug/kg D UJ	380.000 ug/kg D U
1,3-Dinitrobenzene	NA		NA
1,4-Dichlorobenzene	380.000	ug/kg D UJ	380.000 ug/kg D U
1,4-Naphthoquinone	NA		NA
1-Naphthylamine	NA		NA
2,3,4,6-Tetrachlorophenol	NA		NA
2,4,5-Trichlorophenol	1800.000	ug/kg D UJ	1800.000 ug/kg D U
2,4,6-Trichlorophenol	380.000	ug/kg D UJ	380.000 ug/kg D U
2,4-Dichlorophenol	380.000	ug/kg D UJ	380.000 ug/kg D U
2,4-Dimethylphenol	380.000	ug/kg D UJ	380.000 ug/kg D U
2,4-Dinitrophenol	1800.000	ug/kg D UJ	1800.000 ug/kg D U
2,4-Dinitrotoluene	380.000	ug/kg D UJ	380.000 ug/kg D U
2,6-Dichlorophenol	NA		NA
2,6-Dinitrotoluene	380.000	ug/kg D UJ	380.000 ug/kg D U
2-Acetylaminofluorene	NA		NA
2-Chloronaphthalene	380.000	ug/kg D UJ	380.000 ug/kg D U
2-Chlorophenol	380.000	ug/kg D UJ	380.000 ug/kg D U
2-Methylnaphthalene	380.000	ug/kg D UJ	380.000 ug/kg D U
2-Methylphenol	380.000	ug/kg D UJ	380.000 ug/kg D U
2-Naphthylamine	NA		NA
2-Nitroaniline	1800.000	ug/kg D UJ	1800.000 ug/kg D U
2-Nitrophenol	380.000	ug/kg D UJ	380.000 ug/kg D U
2-Picoline	NA		NA
3,3'-Dichlorobenzidine	760.000	ug/kg D UJ	760.000 ug/kg D U
3,3'-Dimethylbenzidine	NA		NA
3-Methylcholanthrene	NA		NA
3-Methylphenol	NA		NA
3-Nitroaniline	1800.000	ug/kg D UJ	1800.000 ug/kg D U
4,6-Dinitro-2-methylphenol	1800.000	ug/kg D UJ	1800.000 ug/kg D U
4-Aminobiphenyl	NA		NA
4-Bromophenyl phenyl ether	380.000	ug/kg D UJ	380.000 ug/kg D U
4-Chloro-3-methylphenol	380.000	ug/kg D UJ	380.000 ug/kg D U
4-Chlorophenylphenyl ether	380.000	ug/kg D UJ	380.000 ug/kg D U

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	SAMPLE NUMBER	067401	SAMPLING DATE	15-16.5 08/27/91	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>																	
4-Methylphenol	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	UJ			
4-Nitroaniline	1800.000	ug/kg	D	UJ		1800.000	ug/kg	D	UJ		2000.000	ug/kg	D	UJ			
4-Nitrophenol	1800.000	ug/kg	D	UJ		1800.000	ug/kg	D	U		2000.000	ug/kg	D	U			
4-Nitroquinoline-1-oxide	NA					NA					410.000	ug/kg	D	R			
5-Nitro-o-toluidine	NA					NA					840.000	ug/kg	D	U			
7,12-Dimethylbenz(a)anthracene	NA					NA					840.000	ug/kg	D	U			
Aceanaphthene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Aceanaphthylene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Acetophenone	NA					NA					410.000	ug/kg	D	U			
Aniline	NA					NA					2100.000	ug/kg	D	U			
Anthracene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Aramite	NA					NA					410.000	ug/kg	D	UJ			
Benz(a)anthracene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Benz(a)pyrene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Benz(b)fluoranthene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Benz(g,h,i)perylene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Benz(k)fluoranthene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Benzoic acid	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Benzyl alcohol	1800.000	ug/kg	D	UJ		1800.000	ug/kg	D	U		46.000	ug/kg	D	U			
Butyl benzyl phthalate	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Chrysene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Di-n-butyl phthalate	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		47.000	ug/kg	D	J			
Di-n-octyl phthalate	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Dialkate	NA					380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Dibenz(a,h)anthracene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Dibenzofuran	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Diethyl phthalate	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		45.000	ug/kg	D	J			
Dimethyl phthalate	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Diphenylamine	NA					NA					410.000	ug/kg	D	U			
Ethyl methanesulfonate	NA					NA					410.000	ug/kg	D	U			
Fluoranthene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Fluorene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Hexachlorobenzene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Hexachlorobutadiene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Hexachlorocyclopentadiene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Hexachloroethane	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Hexachlorophene	NA					NA					2100.000	ug/kg	D	U			
Hexachloropropene	NA					NA					840.000	ug/kg	D	R			
Indeno(1,2,3-cd)pyrene	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Isophorone	380.000	ug/kg	D	UJ		380.000	ug/kg	D	U		410.000	ug/kg	D	U			
Isosafrole	NA					NA					410.000	ug/kg	D	U			
Methapyrilene	NA					NA					1700.000	ug/kg	D	U			

TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1888	1888
SAMPLE NUMBER	067401	067714	067717
SAMPLING DATE	15-16.5 08/27/91	0-1.5 02/23/92	5-6 02/23/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Methyl methanesulfonate	NA		NA
Methyl parathion	100.000	ug/kg C U	1.900
N-Nitroso-di-n-propylamine	380.000	ug/kg D UJ	380.000
N-Nitrosodi-n-butylamine	NA		NA
N-Nitrosodiethylamine	NA		NA
N-Nitrosodimethylamine	NA		NA
N-Nitrosodiphenylamine	380.000	ug/kg D UJ	380.000
N-Nitrosomethylethylamine	NA		NA
N-Nitrosomorpholine	NA		NA
N-Nitrosopiperidine	NA		NA
N-Nitrosopyrrolidine	NA		NA
Naphthalene	380.000	ug/kg D UJ	380.000
Nitrobenzene	380.000	ug/kg D UJ	380.000
O,O,O-Triethylphosphorothioate	100.000	ug/kg D U	NA
Parathion	100.000	ug/kg C U	1.900
Pentachlorobenzene	NA		NA
Pentachloroethane	NA		NA
Pentachloronitrobenzene	NA		NA
Pentachlorophenol	1800.000	ug/kg D UJ	1800.000
Phenacetin	NA		NA
Phenanthrene	380.000	ug/kg D UJ	380.000
Phenol	380.000	ug/kg D UJ	380.000
Pronamide	NA		NA
Pyrene	380.000	ug/kg D UJ	380.000
Safrole	NA		NA
Sulfotep	100.000	ug/kg C U	NA
a,a-Dimethylphenethylamine	NA		NA
bis(2-Chloroethoxy)methane	380.000	ug/kg D UJ	380.000
bis(2-Chloroethyl)ether	380.000	ug/kg D UJ	380.000
bis(2-Chloroisopropyl) ether	380.000	ug/kg D UJ	380.000
bis(2-Ethylhexyl) phthalate	380.000	ug/kg D UJ	380.000
o-Toluidine	NA		NA
p-Chloroaniline	380.000	ug/kg D UJ	380.000
p-Dimethylaminoazobenzene	NA		NA
p-Phenylenediamine	NA		NA
<u>Herbicide Organics</u>			
2,4,5-T	NA		NA
2,4,5-TP (Silvex)	NA		NA
2,4-D	NA		NA
Dinoseb	NA		NA
			48.000 ug/kg D UJ
			44.000 ug/kg D UJ
			240.000 ug/kg D UJ
			17.000 ug/kg D UJ

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1888	1888			
SAMPLE NUMBER	067401	067714	067717			
SAMPLING DATE	15-16.5 08/27/91	0-1.5 02/23/92	5-6 02/23/92			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D UJ
4,4'-DDE	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D UJ
4,4'-DDT	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D UJ
Aldrin	9.300	ug/kg D U	9.400	ug/kg D U	9.900	ug/kg D UJ
Aroclor-1016	93.000	ug/kg D U	94.000	ug/kg D U	99.000	ug/kg D UJ
Aroclor-1221	93.000	ug/kg D U	94.000	ug/kg D U	99.000	ug/kg D UJ
Aroclor-1232	93.000	ug/kg D U	94.000	ug/kg D U	99.000	ug/kg D UJ
Aroclor-1242	93.000	ug/kg D U	94.000	ug/kg D U	99.000	ug/kg D UJ
Aroclor-1248	93.000	ug/kg D U	94.000	ug/kg D U	99.000	ug/kg D UJ
Aroclor-1254	190.000	ug/kg D U	190.000	ug/kg D U	200.000	ug/kg D UJ
Aroclor-1260	190.000	ug/kg D U	190.000	ug/kg D U	200.000	ug/kg D UJ
Azinphosmethyl	100.000	ug/kg C U	7.700	ug/kg D U	8.200	ug/kg D U
Chlorobenzilate	NA		NA		20.000	ug/kg D UJ
Demeton	200.000	ug/kg C U	3.800	ug/kg D U	4.100	ug/kg D U
Diazinon	100.000	ug/kg C U	1.900	ug/kg D U	2.000	ug/kg D U
Dieldrin	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D UJ
Dimethoate	100.000	ug/kg C U	NA		NA	
Disulfoton	100.000	ug/kg C U	1.900	ug/kg D U	200.000	ug/kg D U
Endosulfan II	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D UJ
Endosulfan sulfate	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D UJ
Endosulfan-I	9.300	ug/kg D U	9.400	ug/kg D U	9.900	ug/kg D UJ
Endrin	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D UJ
Endrin ketone	19.000	ug/kg D U	19.000	ug/kg D U	20.000	ug/kg D UJ
Ethion	100.000	ug/kg C U	1.900	ug/kg D U	2.000	ug/kg D U
Famphur	100.000	ug/kg C U	NA		NA	
Heptachlor	9.300	ug/kg D U	9.400	ug/kg D U	9.900	ug/kg D UJ
Heptachlor epoxide	9.300	ug/kg D U	9.400	ug/kg D U	9.900	ug/kg D UJ
Isodrin	NA		NA		9.900	ug/kg D UJ
Kepone	NA		NA		20.000	ug/kg D UJ
Malathion	100.000	ug/kg C U	1.900	ug/kg D U	2.000	ug/kg D U
Methoxychlor	93.000	ug/kg D U	94.000	ug/kg D U	99.000	ug/kg D UJ
Phorate	100.000	ug/kg C U	NA		NA	
Tetraethylpyrophosphate	400.000	ug/kg C U	1.900	ug/kg D U	2.000	ug/kg D U
Thionazin	100.000	ug/kg C U	NA		NA	
Toxaphene	190.000	ug/kg D U	190.000	ug/kg D U	200.000	ug/kg D UJ
alpha-BHC	9.300	ug/kg D U	9.400	ug/kg D U	9.900	ug/kg D UJ
alpha-Chlordane	93.000	ug/kg D U	94.000	ug/kg D U	99.000	ug/kg D UJ
beta-BHC	9.300	ug/kg D U	9.400	ug/kg D U	9.900	ug/kg D UJ
delta-BHC	9.300	ug/kg D U	9.400	ug/kg D U	9.900	ug/kg D UJ
gamma-BHC (Lindane)	9.300	ug/kg D U	9.400	ug/kg D U	9.900	ug/kg D UJ
gamma-Chlordane	93.000	ug/kg D U	94.000	ug/kg D U	99.000	ug/kg D UJ
<u>Dioxin/Furan</u>						
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.042	ug/kg E U	0.046	ug/kg E U	0.130	ug/kg E U

TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1888	1888
SAMPLE NUMBER	067401	067714	067717
SAMPLING DATE	15-16.5 08/27/91	0-1.5 02/23/92	5-6 02/23/92
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Dioxin Furan</u>			
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.026	ug/kg	E U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.036	ug/kg	E U
1,2,3,4,7,8-Hexachlorodibenz-p-dioxin	0.050	ug/kg	E U
1,2,3,4,7,8-Hexachlorodibenzofuran	0.050	ug/kg	E U
1,2,3,6,7,8-Hexachlorodibenz-p-dioxin	0.040	ug/kg	E U
1,2,3,6,7,8-Hexachlorodibenzofuran	0.045	ug/kg	E U
1,2,3,7,8,9-Hexachlorodibenz-p-dioxin	0.042	ug/kg	E U
1,2,3,7,8,9-Hexachlorodibenzofuran	0.060	ug/kg	E U
1,2,3,7,8-Pentachlorodibenz-p-dioxin	0.050	ug/kg	E UJ
1,2,3,7,8-Pentachlorodibenzofuran	0.040	ug/kg	E UJ
2,3,4,6,7,8-Hexachlorodibenzofuran	0.050	ug/kg	E U
2,3,4,7,8-Pentachlorodibenzofuran	0.043	ug/kg	E UJ
2,3,7,8-TCDD	0.170	ug/kg	E UJ
2,3,7,8-TCDF	0.110	ug/kg	E UJ
Heptachlorodibenzo-p-dioxin	0.042	ug/kg	E U
Heptachlorodibenzofuran	0.030	ug/kg	E U
Hexachlorodibenzo-p-dioxin	0.044	ug/kg	E U
Hexachlorodibenzofuran	0.050	ug/kg	E U
Octachlorodibenzo-p-dioxin	0.085	ug/kg	J
Octachlorodibenzofuran	0.045	ug/kg	E U
Pentachlorodibenzo-p-dioxin	0.050	ug/kg	E UJ
Pentachlorodibenzofuran	0.041	ug/kg	E UJ
Tetrachlorodibenzo-p-dioxin	0.200	ug/kg	E U
Tetrachlorodibenzofuran	0.033	ug/kg	E U
<u>General Chemistry</u>			
Total Organic Carbon	NA	10692.000	mg/kg C -
			NA

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1888	1889
SAMPLE NUMBER	067718	067740
SAMPLING DATE	6-7-5 02/23/92	15.5-17.5 02/25/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ
<u>Inorganics</u>		
Aluminum	NA	748.000 mg/kg D -
Antimony	NA	22.600 mg/kg D J
Arsenic	NA	2.200 mg/kg D -
Barium	NA	47.700 mg/kg D -
Beryllium	NA	0.730 mg/kg D -
Cadmium	NA	4.800 mg/kg D -
Calcium	NA	91600.000 mg/kg D -
Chromium	NA	29.500 mg/kg D -
Cobalt	NA	10.700 mg/kg D -
Copper	NA	22.600 mg/kg D -
Cyanide	NA	0.110 mg/kg D -
Iron	NA	16700.000 mg/kg D -
Lead	NA	7.800 mg/kg D -
Magnesium	NA	26800.000 mg/kg D -
Manganese	NA	346.000 mg/kg D -
Mercury	NA	0.110 mg/kg D -
Molybdenum	NA	13.200 mg/kg D -
Nickel	NA	26.600 mg/kg D -
Potassium	NA	1220.000 mg/kg D -
Selenium	NA	0.660 mg/kg D -
Silicon	NA	818.000 mg/kg D -
Silver	NA	15.000 mg/kg D -
Sodium	NA	156.000 mg/kg D -
Thallium	NA	12.500 mg/kg D -
Vanadium	NA	25.400 mg/kg D -
Zinc	NA	39.300 mg/kg D -
<u>Volatile Organics</u>		
1,1,1-Trichloroethane	NA	6.000 ug/kg D U
1,1,2,2-Tetrachloroethane	NA	6.000 ug/kg D U
1,1,2-Trichloroethane	NA	6.000 ug/kg D U
1,1-Dichloroethane	NA	6.000 ug/kg D U
1,1-Dichloroethene	NA	6.000 ug/kg D U
1,2-Dichloroethane	NA	6.000 ug/kg D U
1,2-Dichloroethene	NA	6.000 ug/kg D U
1,2-Dichloropropane	NA	6.000 ug/kg D U
2-Butanone	NA	11.000 ug/kg D U
2-Hexanone	NA	11.000 ug/kg D U
4-Methyl-2-pentanone	NA	11.000 ug/kg D U
Acetone	NA	11.000 ug/kg D U
Benzene	NA	6.000 ug/kg D U

TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1888	1889
SAMPLE NUMBER	067718	067740
SAMPLING DATE	6-7-5 02/23/92	15-5-17-5 02/25/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ
<u>Volatile Organics</u>		
Bromodichloromethane	NA	6.000 ug/kg D U
Bromoform	NA	6.000 ug/kg D U
Bromomethane	NA	11.000 ug/kg D UJ
Carbon Tetrachloride	NA	6.000 ug/kg D U
Carbon disulfide	NA	6.000 ug/kg D U
Chlorobenzene	NA	6.000 ug/kg D U
Chloroethane	NA	11.000 ug/kg D U
Chloroform	NA	6.000 ug/kg D U
Chloromethane	NA	11.000 ug/kg D UJ
Dibromochloromethane	NA	6.000 ug/kg D U
Ethylbenzene	NA	6.000 ug/kg D U
Methylene chloride	NA	13.000 ug/kg D -
Styrene	NA	6.000 ug/kg D U
Tetrachloroethene	NA	6.000 ug/kg D U
Toluene	NA	6.000 ug/kg D U
Trichloroethene	NA	6.000 ug/kg D U
Vinyl Acetate	NA	11.000 ug/kg D U
Vinyl chloride	NA	11.000 ug/kg D U
Xylenes, Total	NA	6.000 ug/kg D U
cis-1,3-Dichloropropene	NA	6.000 ug/kg D U
trans-1,3-Dichloropropene	NA	6.000 ug/kg D U
<u>Semivolatile Organics</u>		
1,2,4-Trichlorobenzene	NA	370.000 ug/kg D U
1,2-Dichlorobenzene	NA	370.000 ug/kg D U
1,3-Dichlorobenzene	NA	370.000 ug/kg D U
1,4-Dichlorobenzene	NA	370.000 ug/kg D U
2,4,5-Trichlorophenol	NA	1800.000 ug/kg D U
2,4,6-Trichlorophenol	NA	370.000 ug/kg D U
2,4-Dichlorophenol	NA	370.000 ug/kg D U
2,4-Dimethylphenol	NA	370.000 ug/kg D U
2,4-Dinitrophenol	NA	1800.000 ug/kg D U
2,4-Dinitrotoluene	NA	370.000 ug/kg D UJ
2,6-Dinitrotoluene	NA	370.000 ug/kg D U
2-Choronaphthalene	NA	370.000 ug/kg D U
2-Chlorophenol	NA	370.000 ug/kg D U
2-Methylnaphthalene	NA	370.000 ug/kg D U
2-Methylphenol	NA	370.000 ug/kg D U
2-Nitroaniline	NA	1800.000 ug/kg D U
2-Nitrophenol	NA	370.000 ug/kg D U
3,3'-Dichlorobenzidine	NA	740.000 ug/kg D U

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5173TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1888	1889		
SAMPLE NUMBER	067718	067740		
SAMPLING DATE	6-7-5 02/23/92	15.5-17.5 02/25/92		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>				
3-Nitroaniline	NA		1800.000	ug/kg D UJ
4,6-Dinitro-2-methylphenol	NA		1800.000	ug/kg D UJ
4-Bromophenyl phenyl ether	NA		370.000	ug/kg D
4-Chloro-3-methylphenol	NA		370.000	ug/kg D
4-Chlorophenylphenyl ether	NA		370.000	ug/kg D
4-Methylphenol	NA		370.000	ug/kg D
4-Nitroaniline	NA		1800.000	ug/kg D
4-Nitrophenol	NA		1800.000	ug/kg D
Acenaphthene	NA		370.000	ug/kg D
Acenaphthylene	NA		370.000	ug/kg D
Anthracene	NA		370.000	ug/kg D
Benzo(a)anthracene	NA		370.000	ug/kg D
Benzo(a)pyrene	NA		370.000	ug/kg D
Benzo(b)fluoranthene	NA		370.000	ug/kg D
Benzo(g,h,i)perylene	NA		370.000	ug/kg D
Benzo(k)fluoranthene	NA		370.000	ug/kg D
Benzolic acid	NA		1800.000	ug/kg D
Benzyl alcohol	NA		370.000	ug/kg D
Butyl benzyl phthalate	NA		370.000	ug/kg D
Chrysene	NA		370.000	ug/kg D
Di-n-butyl phthalate	NA		370.000	ug/kg D
Di-n-octyl phthalate	NA		370.000	ug/kg D
Dibenzo(a,h)anthracene	NA		370.000	ug/kg D
Dibenzofuran	NA		370.000	ug/kg D
Diethyl phthalate	NA		370.000	ug/kg D
Dimethyl phthalate	NA		370.000	ug/kg D
Fluoranthene	NA		370.000	ug/kg D
Fluorene	NA		370.000	ug/kg D
Hexachlorobenzene	NA		370.000	ug/kg D
Hexachlorobutadiene	NA		370.000	ug/kg D
Hexachlorocyclopentadiene	NA		370.000	ug/kg D
Hexachloroethane	NA		370.000	ug/kg D
Indeno(1,2,3-cd)pyrene	NA		370.000	ug/kg D
Isophorone	NA		370.000	ug/kg D
Methyl parathion	NA		1.900	ug/kg D
N-Nitroso-di-n-propylamine	NA		370.000	ug/kg D
N-Nitrosodiphenylamine	NA		370.000	ug/kg D
Naphthalene	NA		370.000	ug/kg D
Nitrobenzene	NA		370.000	ug/kg D
Parathion	NA		1.900	ug/kg D
Pentachlorophenol	NA		1800.000	ug/kg D
Phenanthrene	NA		370.000	ug/kg D

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1888	1889
SAMPLE NUMBER	067718	067740
SAMPLING DATE	6-7-5 02/23/92	15.5-17.5 02/25/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>		
Phenol	NA	370.000 ug/kg D U
Pyrene	NA	370.000 ug/kg D UU
bis(2-Chloroethoxy)methane	NA	370.000 ug/kg D UU
bis(2-Chloroethyl)ether	NA	370.000 ug/kg D U
bis(2-Chloroisopropyl) ether	NA	370.000 ug/kg D UU
bis(2-Ethylhexyl) phthalate	NA	370.000 ug/kg D UU
p-Chloroaniline	NA	370.000 ug/kg D U
<u>Pesticide Organics/PCBs</u>		
4,4'-DDD	NA	18.000 ug/kg D U
4,4'-DDE	NA	18.000 ug/kg D UU
4,4'-DDT	NA	18.000 ug/kg D UU
Aldrin	NA	9.200 ug/kg D UU
Aroclor-1016	NA	92.000 ug/kg D UU
Aroclor-1221	NA	92.000 ug/kg D UU
Aroclor-1232	NA	92.000 ug/kg D UU
Aroclor-1242	NA	92.000 ug/kg D UU
Aroclor-1248	NA	92.000 ug/kg D UU
Aroclor-1254	NA	180.000 ug/kg D UU
Aroclor-1260	NA	180.000 ug/kg D UU
Azinphosmethyl	NA	7.700 ug/kg D UU
Demeton	NA	3.800 ug/kg D UU
Diazinon	NA	1.900 ug/kg D UU
Dieldrin	NA	18.000 ug/kg D UU
Disulfoton	NA	1.900 ug/kg D UU
Endosulfan II	NA	18.000 ug/kg D UU
Endosulfan sulfate	NA	18.000 ug/kg D UU
Endosulfan-I	NA	9.200 ug/kg D UU
Endrin	NA	18.000 ug/kg D UU
Endrin ketone	NA	18.000 ug/kg D UU
Ethion	NA	1.900 ug/kg D UU
Heptachlor	NA	9.200 ug/kg D UU
Heptachlor epoxide	NA	9.200 ug/kg D UU
Malathion	NA	1.900 ug/kg D UU
Methoxychlor	NA	92.000 ug/kg D UU
Tetraethylpyrophosphate	NA	1.900 ug/kg D UU
Toxaphene	NA	180.000 ug/kg D UU
alpha-BHC	NA	9.200 ug/kg D UU
alpha-Chlordane	NA	92.000 ug/kg D UU
beta-BHC	NA	9.200 ug/kg D UU
delta-BHC	NA	9.200 ug/kg D UU

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TABLE C-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>								
gamma-BHC (Lindane)	NA				9.200	ug/kg	D	U
gamma-Chlordane	NA				92.000	ug/kg	D	U
<u>Dioxin/Furan</u>								
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	NA				0.056	ug/kg	E	U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	NA				0.090	ug/kg	E	U
1,2,3,4,7,8,9-Heptachlorodibenzo-furan	NA				0.130	ug/kg	E	U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	NA				0.079	ug/kg	E	U
1,2,3,4,7,8-Hexachlorodibenzofuran	NA				0.059	ug/kg	E	U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	NA				0.063	ug/kg	E	U
1,2,3,6,7,8-Hexachlorodibenzofuran	NA				0.052	ug/kg	E	U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	NA				0.066	ug/kg	E	U
1,2,3,7,8,9-Hexachlorodibenzofuran	NA				0.140	ug/kg	E	U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	NA				0.180	ug/kg	E	U
1,2,3,7,8-Pentachlorodibenzofuran	NA				0.095	ug/kg	E	U
2,3,4,6,7,8-Hexachlorodibenzofuran	NA				0.057	ug/kg	E	U
2,3,4,7,8-Pentachlorodibenzo-furan	NA				0.071	ug/kg	E	U
2,3,7,8-TCDD	NA				0.024	ug/kg	E	U
2,3,7,8-TCDF	NA				0.034	ug/kg	E	U
Heptachlorodibenzo-p-dioxin	NA				0.056	ug/kg	E	U
Heptachlorodibenzofuran	NA				0.110	ug/kg	E	U
Hexachlorodibenzo-p-dioxin	NA				0.069	ug/kg	E	U
Hexachlorodibenzofuran	NA				0.120	ug/kg	E	U
Octachlorodibenzo-p-dioxin	NA				0.160	ug/kg	E	U
Octachlorodibenzofuran	NA				0.110	ug/kg	E	U
Pentachlorodibenzo-p-dioxin	NA				0.180	ug/kg	E	U
Pentachlorodibenzofuran	NA				0.210	ug/kg	E	U
Tetrachlorodibenzo-p-dioxin	NA				0.044	ug/kg	E	U
Tetrachlorodibenzofuran	NA				0.056	ug/kg	E	U
<u>General Chemistry</u>								
Total Organic Carbon	7403.000	mg/kg	C	-	6020.000	mg/kg	C	J

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TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	11036	11036	11037
SAMPLE NUMBER	115380	115381	115371
SAMPLING DATE	17 - 19 05/17/93	2.5 - 5 05/17/93	5 - 7.5 05/15/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.099	pCi/g	UJ
GROSS ALPHA	10.500	pCi/g	-
GROSS BETA	23.900	pCi/g	J
NP-237	0.046	pCi/g	R
PU-238	0.022	pCi/g	UJ
PU-239/240	0.022	pCi/g	UJ
RA-226	1.050	pCi/g	-
RA-228	0.860	pCi/g	-
RU-106	0.870	pCi/g	UJ
SR-90	0.230	pCi/g	UJ
TC-99	0.360	pCi/g	UJ
TH-228	0.940	pCi/g	-
TH-230	1.440	pCi/g	-
TH-232	0.710	pCi/g	-
TH-TOTAL	6.500	mg/kg	-
U-234	1.000	pCi/g	-
U-235/236	0.750	pCi/g	-
U-238	1.080	pCi/g	-
U-TOTAL	3.100	mg/kg	J
	0.522	pCi/g	-
	2532.000	pCi/g	-
	1220.000	pCi/g	-
	1.670	pCi/g	-
	0.337	pCi/g	-
	0.022	pCi/g	-
	113.000	pCi/g	-
	6.650	pCi/g	-
	2.400	pCi/g	-
	1.990	pCi/g	-
	5.130	pCi/g	-
	9.360	pCi/g	-
	720.000	pCi/g	-
	8.220	pCi/g	-
	75.600	mg/kg	-
	553.000	pCi/g	-
	28.900	pCi/g	-
	577.000	pCi/g	-
	1770.000	mg/kg	-
	0.080	pCi/g	UJ
	15.600	pCi/g	-
	27.100	pCi/g	-
	0.020	pCi/g	R
	0.030	pCi/g	-
	0.020	pCi/g	-
	1.180	pCi/g	-
	1.160	pCi/g	-
	0.630	pCi/g	-
	0.210	pCi/g	-
	0.380	pCi/g	-
	0.920	pCi/g	-
	1.500	pCi/g	-
	1.000	pCi/g	-
	9.120	mg/kg	-
	0.950	pCi/g	-
	0.060	pCi/g	-
	1.190	pCi/g	-
	5.010	mg/kg	J

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TABLE C-6A
(Continued)

-PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	RESULTS 11037 115372 17.5 - 20 05/15/93	UNITS pci/g	VQ	RESULTS 11038 115376 0 - 2.5 05/16/93	UNITS pci/g	VQ	RESULTS 11038 115377 12.5 - 15 05/16/93	UNITS pci/g	VQ
RADIOLOGICAL PARAMETERS									
CS-137	0.070	pci/g	UJ	NA			0.072	pci/g	UJ
GROSS ALPHA	11.500	pci/g	-	NA			15.000	pci/g	C
GROSS BETA	23.700	pci/g	-	NA			19.700	pci/g	C
NP-237	0.030	pci/g	R	NA			0.055	pci/g	R
PU-238	0.010	pci/g	UJ	NA			0.021	pci/g	J
PU-239/240	0.010	pci/g	UJ	NA			0.019	pci/g	UJ
RA-226	0.900	pci/g	-	0.970	pci/g	*	0.940	pci/g	-
RA-228	0.810	pci/g	-	1.430	pci/g	*	0.880	pci/g	-
RU-106	0.650	pci/g	UJ	NA			0.570	pci/g	C
SR-90	0.190	pci/g	UJ	NA			0.170	pci/g	CC
TC-99	0.390	pci/g	CC	NA			0.380	pci/g	CC
TH-228	0.710	pci/g	-	0.940	pci/g	*	0.790	pci/g	-
TH-230	1.100	pci/g	CC	4.120	pci/g	*	1.000	pci/g	-
TH-232	0.790	pci/g	-	0.940	pci/g	*	0.750	pci/g	-
TH-TOTAL	7.190	mg/kg	-	NA			6.850	mg/kg	-
U-234	1.470	pci/g	-	23.900	pci/g	*	0.820	pci/g	-
U-235/236	0.090	pci/g	-	1.580	pci/g	*	0.025	pci/g	C
U-238	1.560	pci/g	-	78.400	pci/g	*	0.820	pci/g	-
U-TOTAL	5.500	mg/kg	-	227.000	mg/kg	*	5.320	mg/kg	J

TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	11039	11039	11040
SAMPLE NUMBER	115384	115385	115392
SAMPLING DATE	2.5 - 5 05/19/93	12 - 14 05/19/93	2.5 - 5 05/20/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.380	pCi/g	-
GROSS ALPHA	169.000	pCi/g	J
GROSS BETA	219.000	pCi/g	J
NP-237	0.190	pCi/g	N
PU-238	0.140	pCi/g	C
PU-239/240	0.080	pCi/g	C
RA-226	0.820	pCi/g	C
RA-228	1.060	pCi/g	-
RU-106	1.000	pCi/g	C
SR-90	0.170	pCi/g	C
TC-99	0.840	pCi/g	C
TH-228	1.020	pCi/g	C
TH-230	4.300	pCi/g	C
TH-232	0.760	pCi/g	C
TH-TOTAL	6.900	mg/kg	-
U-234	97.000	pCi/g	C
U-235/236	5.720	pCi/g	C
U-238	119.000	pCi/g	C
U-TOTAL	375.000	mg/kg	-
	0.107	pCi/g	UJ
	20.200	pCi/g	J
	27.700	pCi/g	N
	0.078	pCi/g	C
	0.045	pCi/g	C
	0.031	pCi/g	UJ
	0.824	pCi/g	-
	0.759	pCi/g	J
	0.897	pCi/g	UJ
	0.206	pCi/g	UJ
	0.387	pCi/g	UJ
	2.980	pCi/g	-
	4.700	pCi/g	-
	5.160	pCi/g	-
	47.000	mg/kg	-
	1.100	pCi/g	C
	0.063	pCi/g	C
	1.180	pCi/g	J
	6.080	mg/kg	-
	0.120	pCi/g	UJ
	11.100	pCi/g	J
	19.500	pCi/g	C
	0.076	pCi/g	R
	0.039	pCi/g	R
	0.029	pCi/g	R
	1.220	pCi/g	-
	1.130	pCi/g	-
	0.830	pCi/g	C
	NA		
	NA		
	1.020	pCi/g	R
	1.300	pCi/g	R
	0.790	pCi/g	R
	7.190	mg/kg	R
	1.320	pCi/g	R
	0.100	pCi/g	R
	1.840	pCi/g	R
	8.490	mg/kg	R

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TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	11040	11041	11041
SAMPLE NUMBER	115393	115389	115390
SAMPLING DATE	12.5 - 15 05/20/93	0 - 2.5 05/19/93	12.5 - 15 05/19/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.085	pCi/g	UJ
GROSS ALPHA	19.300	pCi/g	J
GROSS BETA	28.300	pCi/g	J
NP-237	0.080	pCi/g	R
PU-238	0.038	pCi/g	UJ
PU-239/240	0.038	pCi/g	UJ
RA-226	0.920	pCi/g	-
RA-228	0.900	pCi/g	-
RU-106	0.720	pCi/g	UJ
SR-90	NA		
TC-99	NA		
TH-228	1.410	pCi/g	R
TH-230	1.010	pCi/g	R
TH-232	0.950	pCi/g	R
TH-TOTAL	8.640	pCi/g	R
U-234	0.770	pCi/g	J
U-235/236	0.055	pCi/g	J
U-238	0.900	pCi/g	J
U-TOTAL	2.490	mg/kg	
	0.123	pCi/g	UJ
	75.400	pCi/g	J
	50.500	pCi/g	J
	0.117	pCi/g	N
	0.257	pCi/g	CJ
	0.089	pCi/g	CJ
	1.160	pCi/g	-
	2.140	pCi/g	-
	0.915	pCi/g	UJ
	0.195	pCi/g	CJ
	0.754	pCi/g	CJ
	2.090	pCi/g	-
	1.740	pCi/g	-
	1.750	pCi/g	-
	16.000	mg/kg	
	8.270	pCi/g	CJ
	0.382	pCi/g	CJ
	12.500	pCi/g	CJ
	40.700	mg/kg	
	0.117	pCi/g	UJ
	14.600	pCi/g	J
	28.300	pCi/g	J
	0.110	pCi/g	N
	0.040	pCi/g	CJ
	0.038	pCi/g	CJ
	1.150	pCi/g	-
	0.777	pCi/g	CJ
	0.806	pCi/g	CJ
	0.185	pCi/g	CCJ
	0.342	pCi/g	UJ
	2.370	pCi/g	*
	4.420	pCi/g	*
	4.710	pCi/g	*
	42.900	mg/kg	*
	0.671	pCi/g	CJ
	0.015	pCi/g	CJ
	0.783	pCi/g	CJ
	4.710	mg/kg	CJ

TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	RESULTS 1982 111484 0 - 2.5 05/06/93	UNITS pci/g	VQ UJ	RESULTS 1982 111487 7.5 - 10 05/06/93	UNITS pci/g	VQ J	RESULTS 1983 111476 1.5 - 2.5 05/03/93	UNITS pci/g	VQ J
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.080	pci/g	UJ	0.090	pci/g	UJ	0.160	pci/g	J
GROSS ALPHA	28.200	pci/g	J	9.360	pci/g	J	86.270	pci/g	-
GROSS BETA	50.800	pci/g	J	29.900	pci/g	J	73.540	pci/g	-
NP-237	0.340	pci/g	N	0.310	pci/g	N	0.237	pci/g	N
PU-238	0.100	pci/g	J	0.090	pci/g	J	0.433	pci/g	J
PU-239/240	0.060	pci/g	J	0.970	pci/g	-	0.068	pci/g	J
RA-226	1.300	pci/g	-	0.930	pci/g	J	1.350	pci/g	-
RA-228	1.190	pci/g	UJ	0.850	pci/g	-	2.390	pci/g	-
RU-106	0.700	pci/g	UJ	0.790	pci/g	UJ	0.830	pci/g	UJ
SR-90	0.430	pci/g	UJ	0.280	pci/g	UJ	0.550	pci/g	J
TC-99	0.360	pci/g	UJ	0.370	pci/g	UJ	0.350	pci/g	UJ
TH-228	1.190	pci/g	-	0.660	pci/g	-	2.690	pci/g	-
TH-230	1.760	pci/g	-	0.940	pci/g	-	3.470	pci/g	-
TH-232	1.020	pci/g	-	0.600	pci/g	-	2.070	pci/g	-
TH-TOTAL	9.310	mg/kg	-	5.480	mg/kg	-	18.800	mg/kg	-
U-234	11.300	pci/g	-	0.750	pci/g	-	32.000	pci/g	-
U-235/236	0.600	pci/g	UJ	0.040	pci/g	J	1.660	pci/g	-
U-238	20.300	pci/g	-	0.790	pci/g	-	30.300	pci/g	-
U-TOTAL	64.800	mg/kg	-	4.830	mg/kg	J	94.300	mg/kg	-

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TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1983			1983			1984				
SAMPLE NUMBER	111477	RESULTS	UNITS	VQ	111480	RESULTS	UNITS	VQ	111466		
SAMPLING DATE	2.5 - 5				17.5 - 20				2.5 - 5		
RADIOLOGICAL PARAMETERS											
CS-137	0.086	pci/g	UJ		0.080	pci/g	UJ		0.078	pci/g	UJ
GROSS ALPHA	34.770	pci/g	-		10.700	pci/g	J		17.400	pci/g	J
GROSS BETA	39.700	pci/g	-		19.600	pci/g	J		20.800	pci/g	J
NP-237	0.185	pci/g	N		0.280	pci/g	N		0.050	pci/g	N
PU-238	0.033	pci/g	J		0.040	pci/g	J		0.027	pci/g	J
PU-239/240	0.049	pci/g	J		0.080	pci/g	J		0.110	pci/g	J
RA-226	1.170	pci/g	-		0.940	pci/g	J		1.110	pci/g	J
RA-228	1.020	pci/g	-		0.780	pci/g	-		1.060	pci/g	-
RU-106	0.660	pci/g	UJ		0.750	pci/g	UJ		0.580	pci/g	UJ
SR-90	0.470	pci/g	UJ		0.540	pci/g	UJ		0.484	pci/g	UJ
TC-99	0.400	pci/g	UJ		0.370	pci/g	UJ		0.366	pci/g	UJ
TH-228	1.110	pci/g	-		0.710	pci/g	-		0.930	pci/g	-
TH-230	4.260	pci/g	-		1.040	pci/g	-		1.510	pci/g	-
TH-232	0.870	pci/g	-		0.600	pci/g	-		0.780	pci/g	-
TH-TOTAL	7.930	mg/kg	-		5.470	mg/kg	-		7.120	mg/kg	-
U-234	3.700	pci/g	-		0.660	pci/g	-		1.639	pci/g	J
U-235/236	0.220	pci/g	J		0.030	pci/g	UJ		0.093	pci/g	J
U-238	10.900	pci/g	-		0.740	pci/g	-		1.730	pci/g	J
U-TOTAL	36.800	mg/kg	-		3.180	mg/kg	J		13.300	mg/kg	J

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TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1984			1985			1985		
SAMPLE NUMBER	111468			111441			111448		
SAMPLING DATE	12.5 - 15			2 - 4			15 - 17		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.100	pCi/g	UJ	0.250	pCi/g	-	0.093	pCi/g	UJ
GROSS ALPHA	9.960	pCi/g	J	60.910	pCi/g	-	16.680	pCi/g	-
GROSS BETA	20.000	pCi/g	J	51.390	pCi/g	-	26.460	pCi/g	-
NP-237	0.047	pCi/g	N	0.462	pCi/g	N	0.099	pCi/g	N
PU-238	0.040	pCi/g	J	0.042	pCi/g	UJ	0.032	pCi/g	J
PU-239/240	0.680	pCi/g	-	0.049	pCi/g	J	0.017	pCi/g	UJ
RA-226	0.790	pCi/g	J	1.870	pCi/g	-	1.230	pCi/g	-
RA-228	0.990	pCi/g	-	1.190	pCi/g	-	0.980	pCi/g	-
RU-106	0.830	pCi/g	UJ	0.710	pCi/g	UJ	0.810	pCi/g	UJ
SR-90	0.403	pCi/g	UJ	0.390	pCi/g	UJ	0.670	pCi/g	UJ
TC-99	0.368	pCi/g	UJ	0.360	pCi/g	UJ	0.380	pCi/g	UJ
TH-228	0.920	pCi/g	-	0.830	pCi/g	-	0.870	pCi/g	-
TH-230	1.300	pCi/g	-	15.360	pCi/g	-	3.060	pCi/g	-
TH-232	0.780	pCi/g	-	0.660	pCi/g	-	0.930	pCi/g	-
TH-TOTAL	7.100	mg/kg	-	6.030	mg/kg	-	8.520	mg/kg	-
U-234	1.110	pCi/g	C	11.570	pCi/g	-	1.210	pCi/g	-
U-235/236	0.046	pCi/g	J	0.680	pCi/g	-	0.054	pCi/g	J
U-238	1.240	pCi/g	J	19.770	pCi/g	-	1.520	pCi/g	-
U-TOTAL	12.700	mg/kg	J	62.300	mg/kg	-	5.910	mg/kg	-

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TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1986			1987			1987		
SAMPLE NUMBER	111458	12.5 - 15	04/30/93	115357	5 - 7.5	05/13/93	115359	12.5 - 15	05/13/93
SAMPLING DATE									
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.110	pCi/g	UJ	0.101	pCi/g	UJ	0.086	pCi/g	UJ
GROSS ALPHA	9.250	pCi/g	J	25.300	pCi/g	-	12.300	pCi/g	-
GROSS BETA	16.900	pCi/g	J	44.000	pCi/g	-	21.700	pCi/g	-
NP-237	0.050	pCi/g	N	0.116	pCi/g	N	0.025	pCi/g	R
PU-238	0.050	pCi/g	J	0.019	pCi/g	J	0.012	pCi/g	UJ
PU-239/240	1.670	pCi/g	-	0.037	pCi/g	UJ	0.025	pCi/g	UJ
RA-226	0.840	pCi/g	J	1.210	pCi/g	-	0.885	pCi/g	-
RA-228	0.920	pCi/g	UJ	1.370	pCi/g	-	0.618	pCi/g	-
RU-106	1.000	pCi/g	UJ	0.725	pCi/g	UJ	0.783	pCi/g	UJ
SR-90	0.484	pCi/g	UJ	0.163	pCi/g	UJ	0.159	pCi/g	UJ
TC-99	0.347	pCi/g	UJ	0.307	pCi/g	UJ	0.284	pCi/g	UJ
TH-228	0.760	pCi/g	-	0.978	pCi/g	-	0.631	pCi/g	-
TH-230	0.940	pCi/g	-	1.690	pCi/g	-	0.967	pCi/g	-
TH-232	0.810	pCi/g	-	1.070	pCi/g	-	0.607	pCi/g	-
TH-TOTAL	7.350	mg/kg	-	9.750	mg/kg	-	5.530	mg/kg	-
U-234	0.820	pCi/g	J	3.560	pCi/g	-	0.651	pCi/g	-
U-235/236	0.035	pCi/g	J	0.301	pCi/g	J	0.040	pCi/g	J
U-238	0.830	pCi/g	J	9.350	pCi/g	-	0.731	pCi/g	-
U-TOTAL	11.400	mg/kg	J	28.800	mg/kg	-	3.940	mg/kg	J

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TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1988			1988			1989		
SAMPLE NUMBER	115350	UNITS	VQ	115351	UNITS	VQ	115362	UNITS	VQ
SAMPLING DATE	2.5 - 5			17.5 - 20			2.5 - 5		
RADIOLOGICAL PARAMETERS									
	RESULTS	UNITS	VQ		RESULTS	UNITS	VQ	RESULTS	UNITS
CS-137	0.091	pCi/g	J		0.083	pCi/g	UJ	0.070	pCi/g
GROSS ALPHA	40.500	pCi/g	-		15.400	pCi/g	-	25.400	pCi/g
GROSS BETA	56.800	pCi/g	-		26.800	pCi/g	-	35.800	pCi/g
NP-237	0.101	pCi/g	N		0.034	pCi/g	R	0.030	pCi/g
PU-238	0.328	pCi/g	C		0.015	pCi/g	J	0.060	pCi/g
PU-239/240	0.056	pCi/g	-		0.015	pCi/g	-	0.030	pCi/g
RA-226	1.150	pCi/g	-		0.980	pCi/g	-	0.970	pCi/g
RA-228	2.560	pCi/g	-		1.000	pCi/g	-	1.220	pCi/g
RU-106	0.731	pCi/g	J		0.793	pCi/g	UJ	0.670	pCi/g
SR-90	0.149	pCi/g	UU		0.178	pCi/g	UU	0.190	pCi/g
TC-99	0.342	pCi/g	UJ		0.326	pCi/g	UJ	0.350	pCi/g
TH-228	1.920	pCi/g	-		0.725	pCi/g	-	0.810	pCi/g
TH-230	2.330	pCi/g	-		0.856	pCi/g	-	1.480	pCi/g
TH-232	1.960	pCi/g	-		0.832	pCi/g	-	0.720	pCi/g
TH-TOTAL	17.800	mg/kg	-		7.580	mg/kg	-	6.600	mg/kg
U-234	24.600	pCi/g	-		0.991	pCi/g	-	5.660	pCi/g
U-235/236	1.430	pCi/g	-		0.077	pCi/g	-	0.370	pCi/g
U-238	37.800	pCi/g	-		0.961	pCi/g	-	10.600	pCi/g
U-TOTAL	109.000	mg/kg	-		3.620	mg/kg	J	33.500	mg/kg

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TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	1989 115363 12.5 - 15 05/14/93	RESULTS UNITS VQ	1990 115329 6 - 9 05/10/93	RESULTS UNITS VQ	1990 115335 17.5 - 20 05/10/93	RESULTS UNITS VQ
RADIOLOGICAL PARAMETERS						
CS-137	0.100	pCi/g UJ	0.131	pCi/g UJ	0.073	pCi/g UJ
GROSS ALPHA	9.810	pCi/g UJ	178.000	pCi/g -	7.630	pCi/g CC
GROSS BETA	20.000	pCi/g -	225.000	pCi/g N	16.100	pCi/g NC
NP-237	0.110	pCi/g R	0.140	pCi/g N	0.116	pCi/g N
PU-238	0.030	pCi/g UJ	0.232	pCi/g J	0.043	pCi/g C
PU-239/240	0.030	pCi/g UJ	0.055	pCi/g J	0.666	pCi/g C
RA-226	1.030	pCi/g -	0.879	pCi/g -	0.883	pCi/g -
RA-228	1.070	pCi/g -	1.350	pCi/g -	0.677	pCi/g -
RU-106	0.950	pCi/g UJ	0.964	pCi/g UJ	0.739	pCi/g CC
SR-90	0.710	pCi/g J	0.143	pCi/g UJ	0.210	pCi/g CC
TC-99	0.360	pCi/g UJ	0.430	pCi/g UJ	0.543	pCi/g CC
TH-228	0.980	pCi/g R	1.400	pCi/g J	0.584	pCi/g C
TH-230	1.020	pCi/g R	3.420	pCi/g J	0.792	pCi/g C
TH-232	0.600	pCi/g R	1.370	pCi/g J	0.489	pCi/g C
TH-TOTAL	5.400	mg/kg R	12.600	mg/kg J	4.500	mg/kg C
U-234	0.910	pCi/g -	71.200	pCi/g -	0.785	pCi/g -
U-235/236	0.050	pCi/g J	8.040	pCi/g -	0.038	pCi/g C
U-238	0.800	pCi/g -	170.000	pCi/g -	0.745	pCi/g -
U-TOTAL	5.150	mg/kg J	446.000	mg/kg -	3.060	mg/kg J

TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1991			1991			1992		
SAMPLE NUMBER	115319	UNITS	VQ	115321	UNITS	VQ	115343	UNITS	VQ
SAMPLING DATE	7.5 - 10			12 - 15			7.5 - 10		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.100	pCi/g	UJ	0.100	pCi/g	UJ	0.101	pCi/g	C
GROSS ALPHA	20.500	pCi/g	J	13.300	pCi/g	J	69.300	pCi/g	C
GROSS BETA	36.900	pCi/g	J	25.300	pCi/g	J	88.800	pCi/g	C
NP-237	0.250	pCi/g	N	0.300	pCi/g	-	0.117	pCi/g	C
PU-238	0.060	pCi/g	J	0.070	pCi/g	-	0.102	pCi/g	C
PU-239/240	0.030	pCi/g	J	0.070	pCi/g	-	0.036	pCi/g	C
RA-226	1.140	pCi/g	-	1.040	pCi/g	-	1.190	pCi/g	C
RA-228	1.050	pCi/g	-	0.860	pCi/g	-	1.390	pCi/g	C
RU-106	0.800	pCi/g	J	0.710	pCi/g	C	0.907	pCi/g	C
SR-90	0.480	pCi/g	J	0.280	pCi/g	C	0.206	pCi/g	C
TC-99	0.330	pCi/g	J	0.340	pCi/g	C	0.561	pCi/g	C
TH-228	0.830	pCi/g	J	0.790	pCi/g	-	1.510	pCi/g	C
TH-230	1.160	pCi/g	J	1.170	pCi/g	-	2.050	pCi/g	C
TH-232	0.960	pCi/g	J	0.660	pCi/g	-	1.320	pCi/g	C
TH-TOTAL	8.830	mg/kg	C	5.980	mg/kg	C	12.000	mg/kg	C
U-234	2.610	pCi/g	J	0.830	pCi/g	-	18.200	pCi/g	C
U-235/236	0.200	pCi/g	J	0.040	pCi/g	-	1.140	pCi/g	C
U-238	6.270	pCi/g	J	0.950	pCi/g	J	60.400	pCi/g	C
U-TOTAL	25.400	mg/kg	J	3.240	mg/kg	J	191.000	mg/kg	C

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TABLE C-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1992			1993			1993				
SAMPLE NUMBER	115346	RESULTS	UNITS	VQ	115339	RESULTS	UNITS	VQ	115340		
SAMPLING DATE	17.5 - 20				2.5 - 5				15 - 17.5		
RADIOLOGICAL PARAMETERS											
CS-137	0.063	pc <i>i</i> /g	UJ		0.095	pc <i>i</i> /g	UJ		0.075	pc <i>i</i> /g	UJ
GROSS ALPHA	12.100	pc <i>i</i> /g	J		39.400	pc <i>i</i> /g	J		15.700	pc <i>i</i> /g	J
GROSS BETA	24.900	pc <i>i</i> /g	J		44.700	pc <i>i</i> /g	J		24.700	pc <i>i</i> /g	J
NP-237	0.351	pc <i>i</i> /g	N		0.252	pc <i>i</i> /g	N		0.087	pc <i>i</i> /g	N
PU-238	0.053	pc <i>i</i> /g	UJ		0.023	pc <i>i</i> /g	J		0.034	pc <i>i</i> /g	J
PU-239/240	0.112	pc <i>i</i> /g	J		0.023	pc <i>i</i> /g	J		0.015	pc <i>i</i> /g	UJ
RA-226	0.899	pc <i>i</i> /g	-		1.165	pc <i>i</i> /g	-		0.944	pc <i>i</i> /g	-
RA-228	1.010	pc <i>i</i> /g	-		1.210	pc <i>i</i> /g	-		0.884	pc <i>i</i> /g	-
RU-106	0.579	pc <i>i</i> /g	UJ		0.589	pc <i>i</i> /g	UJ		0.726	pc <i>i</i> /g	UJ
SR-90	0.212	pc <i>i</i> /g	UJ		0.224	pc <i>i</i> /g	UJ		0.207	pc <i>i</i> /g	UJ
TC-99	0.530	pc <i>i</i> /g	UJ		0.522	pc <i>i</i> /g	UJ		0.500	pc <i>i</i> /g	UJ
TH-228	0.733	pc <i>i</i> /g	C		0.904	pc <i>i</i> /g	-		0.828	pc <i>i</i> /g	-
TH-230	1.000	pc <i>i</i> /g	C		6.720	pc <i>i</i> /g	-		1.110	pc <i>i</i> /g	-
TH-232	0.877	pc <i>i</i> /g	C		0.880	pc <i>i</i> /g	-		0.789	pc <i>i</i> /g	-
TH-TOTAL	8.070	mg/kg	C		8.100	mg/kg	-		7.260	mg/kg	-
U-234	0.901	pc <i>i</i> /g	-		7.330	pc <i>i</i> /g	-		0.906	pc <i>i</i> /g	-
U-235/236	0.058	pc <i>i</i> /g	J		0.382	pc <i>i</i> /g	J		0.038	pc <i>i</i> /g	J
U-238	1.170	pc <i>i</i> /g	-		15.300	pc <i>i</i> /g	-		0.973	pc <i>i</i> /g	-
U-TOTAL	3.500	mg/kg	-		38.900	mg/kg	-		3.020	mg/kg	-

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11038	11036	11039
SAMPLE NUMBER	115376	115381	115384
SAMPLING DATE	0-2.5 05/16/93	2.5-5 05/17/93	2.5-5 05/19/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Inorganics			
Aluminum	8500.000	mg/kg C -U	8690.000
Antimony	0.890	mg/kg C UJ	0.870
Arsenic	8.100	mg/kg C -U	5.500
Barium	61.200	mg/kg C -C	251.000
Beryllium	0.360	mg/kg C -C	0.430
Cadmium	0.890	mg/kg C -C	0.870
Calcium	83600.000	mg/kg C -C	72700.000
Chromium	9.200	mg/kg C -C	20.500
Cobalt	5.800	mg/kg C -C	5.700
Copper	14.500	mg/kg C -C	14.700
Cyanide	0.110	mg/kg C -C	0.120
Iron	16100.000	mg/kg C -C	15800.000
Lead	13.700	mg/kg C -C	17.200
Magnesium	33800.000	mg/kg C -C	27700.000
Manganese	381.000	mg/kg C -C	453.000
Mercury	0.110	mg/kg C -C	0.110
Molybdenum	4.800	mg/kg C -C	5.300
Nickel	14.000	mg/kg C -C	15.600
Potassium	906.000	mg/kg C -C	1170.000
Selenium	0.410	mg/kg C -C	0.340
Silicon	467.000	mg/kg C -C	569.000
Silver	4.400	mg/kg C -C	4.600
Sodium	203.000	mg/kg C -C	338.000
Thallium	0.410	mg/kg C -U	1.700
Vanadium	23.100	mg/kg C -U	22.000
Zinc	41.000	mg/kg C -C	44.700
Volatile Organics			
1,1,1-Trichloroethane	11.000	ug/kg C U	11.000
1,1,2,2-Tetrachloroethane	11.000	ug/kg C CC	11.000
1,1,2-Trichloroethane	11.000	ug/kg C CC	11.000
1,1-Dichloroethane	11.000	ug/kg C CCC	55.000
1,1-Dichloroethene	11.000	ug/kg C CCC	11.000
1,2-Dichloroethane	11.000	ug/kg C CCC	11.000
1,2-Dichloroethene	11.000	ug/kg C CCC	11.000
1,2-Dichlorethane	11.000	ug/kg C CCC	11.000
2-Butanone	11.000	ug/kg C CCC	11.000
2-Hexanone	11.000	ug/kg C CCC	13.000
4-Methyl-2-pentanone	11.000	ug/kg C CCC	11.000
Acetone	11.000	ug/kg C CCC	64.000
Benzene	11.000	ug/kg C CCC	4.000

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11038	11036	11039			
SAMPLE NUMBER	115376	115381	115384			
SAMPLING DATE	0-2.5	2.5-5	2.5-5			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Bromoform	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Bromomethane	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Carbon Tetrachloride	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Carbon disulfide	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Chlorobenzene	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Chloroethane	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Chloroform	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Chloromethane	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Dibromochloromethane	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Ethylbenzene	11.000	ug/kg C U	15.000	ug/kg C U	2.000	ug/kg C U
Methylene chloride	15.000	ug/kg C U	21.000	ug/kg C U	11.000	ug/kg C U
Styrene	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Tetrachloroethene	11.000	ug/kg C U	2.000	ug/kg C U	11.000	ug/kg C U
Toluene	11.000	ug/kg C U	4.000	ug/kg C U	1.000	ug/kg C U
Trichloroethene	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Vinyl Acetate	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
Vinyl chloride	11.000	ug/kg C U	2.000	ug/kg C U	11.000	ug/kg C U
Xylenes, Total	11.000	ug/kg C U	54.000	ug/kg C U	11.000	ug/kg C U
cis-1,3-Dichloropropene	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
trans-1,3-Dichloropropene	11.000	ug/kg C U	11.000	ug/kg C U	11.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
1,2-Dichlorobenzene	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
1,3-Dichlorobenzene	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
1,4-Dichlorobenzene	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
2,4,5-Trichlorophenol	930.000	ug/kg C U	1800.000	ug/kg C UJ	46000.000	ug/kg C U
2,4,6-Trichlorophenol	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
2,4-Dichlorophenol	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
2,4-Dimethylphenol	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
2,4-Dinitrophenol	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
2,4-Dinitrotoluene	930.000	ug/kg C U	1800.000	ug/kg C UJ	46000.000	ug/kg C U
2,6-Dinitrotoluene	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
2-Chloronaphthalene	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
2-Chlorophenol	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
2-Methylnaphthalene	380.000	ug/kg C U	760.000	ug/kg C UJ	46000.000	ug/kg C U
2-Methylphenol	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
2-Nitroaniline	930.000	ug/kg C U	1800.000	ug/kg C UJ	46000.000	ug/kg C U
2-Nitrophenol	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
3,3'-Dichlorobenzidine	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11038	11036	11039			
SAMPLE NUMBER	115376	115381	115384			
SAMPLING DATE	0-2.5	2.5-5	2.5-5			
CHEMICAL PARAMETERS						
	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>						
3-Nitroaniline	930.000	ug/kg C U	1800.000	ug/kg C R	46000.000	ug/kg C U
4,6-Dinitro-2-methylphenol	930.000	ug/kg C U	1800.000	ug/kg C UJ	46000.000	ug/kg C U
4-Bromophenyl phenyl ether	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
4-Chloro-3-methylphenol	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
4-Chlorophenylphenyl ether	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
4-Methylphenol	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
4-Nitroaniline	930.000	ug/kg C U	1800.000	ug/kg C UJ	46000.000	ug/kg C U
4-Nitrophenol	930.000	ug/kg C U	1800.000	ug/kg C UJ	46000.000	ug/kg C U
Acenaphthene	380.000	ug/kg C U	760.000	ug/kg C UJ	140000.000	ug/kg C U
Acenaphthylene	380.000	ug/kg C U	760.000	ug/kg C UJ	2500.000	ug/kg C U
Anthracene	73.000	ug/kg C U	80.000	ug/kg C U	250000.000	ug/kg C U
Benz(a)anthracene	300.000	ug/kg C U	280.000	ug/kg C U	310000.000	ug/kg C U
Benz(a)pyrene	300.000	ug/kg C U	230.000	ug/kg C U	260000.000	ug/kg C U
Benz(b)fluoranthene	300.000	ug/kg C U	340.000	ug/kg C U	220000.000	ug/kg C U
Benz(g,h,i)perylene	200.000	ug/kg C U	130.000	ug/kg C U	150000.000	ug/kg C U
Benz(k)fluoranthene	360.000	ug/kg C U	760.000	ug/kg C U	140000.000	ug/kg C U
Butyl benzyl phthalate	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Carbazole	380.000	ug/kg C U	760.000	ug/kg C U	89000.000	ug/kg C U
Chrysene	400.000	ug/kg C U	350.000	ug/kg C U	310000.000	ug/kg C U
Di-n-butyl phthalate	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Di-n-octyl phthalate	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Dibenzo(a,h)anthracene	96.000	ug/kg C U	760.000	ug/kg C U	79000.000	ug/kg C U
Dibenzofuran	380.000	ug/kg C U	760.000	ug/kg C U	120000.000	ug/kg C U
Diethyl phthalate	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Dimethyl phthalate	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Fluoranthene	780.000	ug/kg C U	630.000	ug/kg C U	790000.000	ug/kg C U
Fluorene	380.000	ug/kg C U	760.000	ug/kg C U	180000.000	ug/kg C U
Hexachlorobenzene	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Hexachlorobutadiene	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Hexachlorocyclopentadiene	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Hexachloroethane	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	210.000	ug/kg C U	130.000	ug/kg C U	150000.000	ug/kg C U
Isophorone	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
N-Nitroso-di-n-propylamine	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
N-Nitrosodiphenylamine	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Naphthalene	380.000	ug/kg C U	760.000	ug/kg C U	96000.000	ug/kg C U
Nitrobenzene	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Pentachlorophenol	930.000	ug/kg C U	1800.000	ug/kg C U	46000.000	ug/kg C U
Phenanthrene	400.000	ug/kg C U	340.000	ug/kg C U	900000.000	ug/kg C U
Phenol	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U
Pyrene	630.000	ug/kg C U	490.000	ug/kg C U	610000.000	ug/kg C U
bis(2-Chloroethoxy)methane	380.000	ug/kg C U	760.000	ug/kg C U	19000.000	ug/kg C U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11038	11036	11039			
SAMPLE NUMBER	115376	115381	115384			
SAMPLING DATE	0-2.5 05/16/93	2.5-5 05/17/93	2.5-5 05/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
bis(2-Chloroethyl)ether	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
bis(2-Chloroisopropyl) ether	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
p-Chloroaniline	380.000	ug/kg C U	760.000	ug/kg C UJ	19000.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	3.800	ug/kg C U	4.500	ug/kg C J	15.000	ug/kg C R
4,4'-DDE	3.800	ug/kg C U	3.900	ug/kg C UJ	3.800	ug/kg C U
4,4'-DDT	3.800	ug/kg C U	3.900	ug/kg C UU	3.800	ug/kg C U
Aldrin	2.000	ug/kg C U	2.000	ug/kg C UU	19.000	ug/kg C R
Aroclor-1016	38.000	ug/kg C U	39.000	ug/kg C UU	38.000	ug/kg C UU
Aroclor-1221	77.000	ug/kg C U	79.000	ug/kg C UU	77.000	ug/kg C UU
Aroclor-1232	38.000	ug/kg C UU	39.000	ug/kg C UU	38.000	ug/kg C UU
Aroclor-1242	38.000	ug/kg C UU	39.000	ug/kg C UU	38.000	ug/kg C UU
Aroclor-1248	38.000	ug/kg C UU	39.000	ug/kg C UU	38.000	ug/kg C UU
Aroclor-1254	38.000	ug/kg C UU	39.000	ug/kg C UU	38.000	ug/kg C UU
Aroclor-1260	170.000	ug/kg C UU	26.000	ug/kg C UU	38.000	ug/kg C UU
Dieldrin	3.800	ug/kg C U	3.900	ug/kg C UU	50.000	ug/kg C R
Endosulfan II	3.800	ug/kg C U	3.900	ug/kg C UU	3.800	ug/kg C U
Endosulfan sulfate	3.800	ug/kg C U	3.900	ug/kg C UU	3.800	ug/kg C U
Endosulfan-I	2.000	ug/kg C UU	2.000	ug/kg C UU	2.000	ug/kg C UU
Endrin	3.800	ug/kg C UU	3.900	ug/kg C UU	3.800	ug/kg C UU
Endrin aldehyde	3.800	ug/kg C UU	3.900	ug/kg C UU	3.800	ug/kg C UU
Endrin ketone	3.800	ug/kg C UU	3.900	ug/kg C UU	3.800	ug/kg C UU
Heptachlor	2.000	ug/kg C UU	2.000	ug/kg C UU	2.000	ug/kg C UU
Heptachlor epoxide	2.000	ug/kg C UU	2.000	ug/kg C UU	2.000	ug/kg C UU
Methoxychlor	20.000	ug/kg C UU	20.000	ug/kg C UU	20.000	ug/kg C UU
Toxaphene	200.000	ug/kg C UU	200.000	ug/kg C UU	200.000	ug/kg C UU
alpha-BHC	2.000	ug/kg C UU	2.000	ug/kg C UU	2.000	ug/kg C UU
alpha-Chlordane	2.000	ug/kg C UU	2.000	ug/kg C UU	6.400	ug/kg C R
beta-BHC	2.000	ug/kg C UU	2.000	ug/kg C UU	2.000	ug/kg C UU
delta-BHC	2.000	ug/kg C UU	2.000	ug/kg C UU	2.000	ug/kg C UU
gamma-BHC (Lindane)	2.000	ug/kg C UU	2.000	ug/kg C UU	5.400	ug/kg C UU
gamma-Chlordane	2.000	ug/kg C UU	2.000	ug/kg C UU	2.000	ug/kg C UU

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11037	11039	11038
SAMPLE NUMBER	115371	115385	115377
SAMPLING DATE	5-7-5 05/15/93	12-14 05/19/93	12-5-15 05/16/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	15400.000	mg/kg C J	11500.000
Antimony	1.100	mg/kg C UJ	1.100
Arsenic	4.900	mg/kg C	11.500
Barium	182.000	mg/kg C	73.100
Beryllium	0.730	mg/kg C	0.490
Cadmium	1.100	mg/kg C	1.100
Calcium	4500.000	mg/kg C	93500.000
Chromium	16.300	mg/kg C	12.500
Cobalt	9.500	mg/kg C	8.400
Copper	16.900	mg/kg C	23.200
Cyanide	0.120	mg/kg C	0.130
Iron	24400.000	mg/kg C	27300.000
Lead	16.300	mg/kg C	11.800
Magnesium	3520.000	mg/kg C	21900.000
Manganese	555.000	mg/kg C	514.000
Mercury	0.110	mg/kg C	0.120
Molybdenum	7.400	mg/kg C	9.000
Nickel	17.900	mg/kg C	21.700
Potassium	1100.000	mg/kg C	1530.000
Selenium	0.480	mg/kg C	0.370
Silicon	511.000	mg/kg C	573.000
Silver	7.300	mg/kg C	7.400
Sodium	70.300	mg/kg C	207.000
Thallium	0.480	mg/kg C	0.370
Vanadium	38.400	mg/kg C	33.000
Zinc	67.900	mg/kg C	56.400
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg C U	13.000
1,1,2,2-Tetrachloroethane	12.000	ug/kg C UU	13.000
1,1,2-Trichloroethane	12.000	ug/kg C UU	13.000
1,1-Dichloroethane	12.000	ug/kg C UU	13.000
1,1-Dichloroethene	12.000	ug/kg C UU	13.000
1,2-Dichloroethane	12.000	ug/kg C UU	13.000
1,2-Dichloroethene	12.000	ug/kg C UU	13.000
1,2-Dichloropropane	12.000	ug/kg C UU	13.000
2-Butanone	12.000	ug/kg C UU	13.000
2-Hexanone	12.000	ug/kg C UU	13.000
4-Methyl-2-pentanone	12.000	ug/kg C UU	13.000
Acetone	12.000	ug/kg C UU	20.000
Benzene	12.000	ug/kg C U	13.000

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11037		11039		11038							
SAMPLE NUMBER	115371		115385		115377							
SAMPLING DATE	5-7-5		12-14		12-5-15							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Tetrachloride	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon disulfide	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	14.000	ug/kg	C	U	17.000	ug/kg	C	U	12.000	ug/kg	C	U
Styrene	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	12.000	ug/kg	C	U	54.000	ug/kg	C	U	5.000	ug/kg	C	U
Trichloroethene	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl Acetate	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	12.000	ug/kg	C	U	13.000	ug/kg	C	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
1,2-Dichlorobenzene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
1,3-Dichlorobenzene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
1,4-Dichlorobenzene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4,5-Trichlorophenol	990.000	ug/kg	C	U	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U
2,4,6-Trichlorophenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4-Dichlorophenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4-Dimethylphenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4-Dinitrophenol	990.000	ug/kg	C	U	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U
2,4-Dinitrotoluene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
2,6-Dinitrotoluene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Chloronaphthalene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Chlorophenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Methylnaphthalene	410.000	ug/kg	C	U	100.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Methylphenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Nitroaniline	990.000	ug/kg	C	U	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U
2-Nitrophenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
3,3'-Dichlorobenzidine	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3-Nitroaniline	990.000	ug/kg	C	UJ	1000.000	ug/kg	C	UJ	1000.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	990.000	ug/kg	C	U	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U
4-Bromophenyl phenyl ether	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Chloro-3-methylphenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Chlorophenylphenyl ether	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Methylphenol	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
4-Nitroaniline	990.000	ug/kg	C	U	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U
4-Nitropheno1	990.000	ug/kg	C	U	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U
Acenaphthene	410.000	ug/kg	C	U	370.000	ug/kg	C	J	410.000	ug/kg	C	U
Acenaphthylene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Anthracene	410.000	ug/kg	C	U	580.000	ug/kg	C	-	410.000	ug/kg	C	U
Benzo(a)anthracene	48.000	ug/kg	C	J	1000.000	ug/kg	C	-	410.000	ug/kg	C	U
Benzo(a)pyrene	410.000	ug/kg	C	U	760.000	ug/kg	C	-	410.000	ug/kg	C	U
Benzo(b)fluoranthene	67.000	ug/kg	C	J	1200.000	ug/kg	C	-	410.000	ug/kg	C	U
Benzo(g,h,i)perylene	410.000	ug/kg	C	U	380.000	ug/kg	C	J	410.000	ug/kg	C	U
Benzo(k)fluoranthene	410.000	ug/kg	C	U	740.000	ug/kg	C	-	410.000	ug/kg	C	U
Butyl benzyl phthalate	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Carbazole	410.000	ug/kg	C	U	210.000	ug/kg	C	J	410.000	ug/kg	C	U
Chrysene	48.000	ug/kg	C	J	920.000	ug/kg	C	-	410.000	ug/kg	C	U
Di-n-butyl phthalate	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Di-n-octyl phthalate	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Dibenzo(a,h)anthracene	410.000	ug/kg	C	U	180.000	ug/kg	C	J	410.000	ug/kg	C	U
Dibenzofuran	410.000	ug/kg	C	U	260.000	ug/kg	C	J	410.000	ug/kg	C	U
Diethyl phthalate	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Dimethyl phthalate	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Fluoranthene	89.000	ug/kg	C	J	2400.000	ug/kg	C	-	410.000	ug/kg	C	U
Fluorene	410.000	ug/kg	C	U	430.000	ug/kg	C	-	410.000	ug/kg	C	U
Hexachlorobenzene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Hexachlorobutadiene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Hexachlorocyclopentadiene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Hexachloroethane	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	410.000	ug/kg	C	U	410.000	ug/kg	C	J	410.000	ug/kg	C	U
Isophorone	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
N-Nitrosodiphenylamine	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Naphthalene	410.000	ug/kg	C	U	320.000	ug/kg	C	J	410.000	ug/kg	C	U
Nitrobenzene	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Pentachloropheno1	990.000	ug/kg	C	U	1000.000	ug/kg	C	U	1000.000	ug/kg	C	U
Phenanthrene	410.000	ug/kg	C	U	2600.000	ug/kg	C	-	410.000	ug/kg	C	U
Phenol	410.000	ug/kg	C	J	430.000	ug/kg	C	U	410.000	ug/kg	C	U
Pyrene	72.000	ug/kg	C	J	1900.000	ug/kg	C	-	410.000	ug/kg	C	U
bis(2-Chloroethoxy)methane	410.000	ug/kg	C	U	430.000	ug/kg	C	U	410.000	ug/kg	C	U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11037	11039	11038			
SAMPLE NUMBER	115371	115385	115377			
SAMPLING DATE	5-7-5 05/15/93	12-14 05/19/93	12-5-15 05/16/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
bis(2-Chloroethyl)ether	410.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroisopropyl) ether	410.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	410.000	ug/kg C U	430.000	ug/kg C U	410.000	ug/kg C U
p-Chloroaniline	410.000	ug/kg C UJ	430.000	ug/kg C R	410.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.100	ug/kg C UJ	4.300	ug/kg C UJ	4.100	ug/kg C U
4,4'-DDE	4.100	ug/kg C UJ	4.300	ug/kg C UJ	4.100	ug/kg C U
4,4'-DDT	4.100	ug/kg C UJ	4.300	ug/kg C UJ	4.100	ug/kg C U
Aldrin	2.100	ug/kg C UU	2.200	ug/kg C UU	2.100	ug/kg C UU
Aroclor-1016	41.000	ug/kg C UU	43.000	ug/kg C UU	41.000	ug/kg C UU
Aroclor-1221	84.000	ug/kg C UU	88.000	ug/kg C UU	83.000	ug/kg C UU
Aroclor-1232	41.000	ug/kg C UU	43.000	ug/kg C UU	41.000	ug/kg C UU
Aroclor-1242	41.000	ug/kg C UU	43.000	ug/kg C UU	41.000	ug/kg C UU
Aroclor-1248	41.000	ug/kg C UU	43.000	ug/kg C UU	41.000	ug/kg C UU
Aroclor-1254	41.000	ug/kg C UU	43.000	ug/kg C UU	41.000	ug/kg C UU
Aroclor-1260	41.000	ug/kg C UU	43.000	ug/kg C UU	41.000	ug/kg C UU
Dieldrin	4.100	ug/kg C UU	4.300	ug/kg C UU	4.100	ug/kg C UU
Endosulfan II	4.100	ug/kg C UU	4.300	ug/kg C UU	4.100	ug/kg C UU
Endosulfan sulfate	4.100	ug/kg C UU	4.300	ug/kg C UU	4.100	ug/kg C UU
Endosulfan-1	2.100	ug/kg C UU	2.200	ug/kg C UU	2.100	ug/kg C UU
Endrin	4.100	ug/kg C UU	4.300	ug/kg C UU	4.100	ug/kg C UU
Endrin aldehyde	4.100	ug/kg C UU	4.300	ug/kg C UU	4.100	ug/kg C UU
Endrin ketone	4.100	ug/kg C UU	4.300	ug/kg C UU	4.100	ug/kg C UU
Heptachlor	2.100	ug/kg C UU	2.200	ug/kg C UU	2.100	ug/kg C UU
Heptachlor epoxide	2.100	ug/kg C UU	2.200	ug/kg C UU	2.100	ug/kg C UU
Methoxychlor	21.000	ug/kg C UU	22.000	ug/kg C UU	21.000	ug/kg C UU
Toxaphene	210.000	ug/kg C UU	220.000	ug/kg C UU	210.000	ug/kg C UU
alpha-BHC	2.100	ug/kg C UU	2.200	ug/kg C UU	2.100	ug/kg C UU
alpha-Chlordane	2.100	ug/kg C UU	2.200	ug/kg C UU	2.100	ug/kg C UU
beta-BHC	2.100	ug/kg C UU	2.200	ug/kg C UU	2.100	ug/kg C UU
delta-BHC	2.100	ug/kg C UU	2.200	ug/kg C UU	2.100	ug/kg C UU
gamma-BHC (Lindane)	2.100	ug/kg C UU	2.200	ug/kg C UU	2.100	ug/kg C UU
gamma-Chlordane	2.100	ug/kg C UU	2.200	ug/kg C UU	2.100	ug/kg C UU

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11036		11037		11041			
SAMPLE NUMBER	115380		115372		115389			
SAMPLING DATE	17-19		17-5-20		0-2-5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Inorganics								
Aluminum	5020.000	mg/kg	C	-	9500.000	mg/kg	C	J
Antimony	0.980	mg/kg	C	UJ	0.870	mg/kg	C	-
Arsenic	4.800	mg/kg	C	-	5.900	mg/kg	C	-
Barium	82.200	mg/kg	C	J	67.100	mg/kg	C	-
Beryllium	0.390	mg/kg	C	UJ	0.350	mg/kg	C	U
Cadmium	0.980	mg/kg	C	U	0.870	mg/kg	C	U
Calcium	131000.000	mg/kg	C	J	112000.000	mg/kg	C	J
Chromium	6.800	mg/kg	C	J	10.100	mg/kg	C	J
Cobalt	3.800	mg/kg	C	J	6.600	mg/kg	C	-
Copper	11.800	mg/kg	C	-	15.800	mg/kg	C	J
Cyanide	0.110	mg/kg	C	U	0.120	mg/kg	C	U
Iron	12800.000	mg/kg	C	-	17300.000	mg/kg	C	J
Lead	8.800	mg/kg	C	-	9.800	mg/kg	C	J
Magnesium	63400.000	mg/kg	C	-	25800.000	mg/kg	C	J
Manganese	327.000	mg/kg	C	J	406.000	mg/kg	C	-
Mercury	0.100	mg/kg	C	U	0.110	mg/kg	C	U
Molybdenum	4.300	mg/kg	C	U	5.400	mg/kg	C	-
Nickel	11.200	mg/kg	C	-	16.100	mg/kg	C	J
Potassium	1290.000	mg/kg	C	-	1800.000	mg/kg	C	-
Selenium	0.370	mg/kg	C	U	0.480	mg/kg	C	-
Silicon	684.000	mg/kg	C	J	687.000	mg/kg	C	-
Silver	2.600	mg/kg	C	J	4.600	mg/kg	C	-
Sodium	156.000	mg/kg	C	-	191.000	mg/kg	C	-
Thallium	0.370	mg/kg	C	U	0.410	mg/kg	C	U
Vanadium	18.600	mg/kg	C	J	20.000	mg/kg	C	-
Zinc	31.900	mg/kg	C	J	45.000	mg/kg	C	J
Volatile Organics								
1,1,1-Trichloroethane	11.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1,2,2-Tetrachloroethane	11.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1,2-Trichloroethane	11.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1-Dichloroethane	1.000	ug/kg	C	J	12.000	ug/kg	C	U
1,1-Dichloroethene	11.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloroethane	11.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloroethene	11.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloropropane	11.000	ug/kg	C	U	12.000	ug/kg	C	U
2-Butanone	11.000	ug/kg	C	U	12.000	ug/kg	C	U
2-Hexanone	11.000	ug/kg	C	U	2.000	ug/kg	C	J
4-Methyl-2-pentanone	11.000	ug/kg	C	U	20.000	ug/kg	C	-
Acetone	11.000	ug/kg	C	U	6.000	ug/kg	C	J
Benzene	11.000	ug/kg	C	U	12.000	ug/kg	C	U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11036	11037	11041			
SAMPLE NUMBER	115380	115372	115389			
SAMPLING DATE	17-19 05/17/93	17.5-20 05/15/93	0-2.5 05/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromoform	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Carbon Tetrachloride	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chlorobenzene	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroform	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Dibromochloromethane	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Ethylbenzene	11.000	ug/kg C U	7.000	ug/kg C U	12.000	ug/kg C U
Methylene chloride	17.000	ug/kg C U	15.000	ug/kg C U	12.000	ug/kg C U
Styrene	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethene	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Toluene	13.000	ug/kg C U	4.000	ug/kg C U	2.000	ug/kg C U
Trichloroethene	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl Acetate	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl chloride	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	11.000	ug/kg C U	23.000	ug/kg C U	12.000	ug/kg C U
cis-1,3-Dichloropropene	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	11.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Semivolatile Organics						
1,2,4-Trichlorobenzene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
1,2-Dichlorobenzene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
1,3-Dichlorobenzene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
1,4-Dichlorobenzene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
2,4,5-Trichlorophenol	910.000	ug/kg C U	940.000	ug/kg C U	9400.000	ug/kg C U
2,4,6-Trichlorophenol	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
2,4-Dichlorophenol	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
2,4-Dimethylphenol	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
2,4-Dinitrophenol	910.000	ug/kg C U	940.000	ug/kg C U	9400.000	ug/kg C U
2,4-Dinitrotoluene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
2,6-Dinitrotoluene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
2-Chloronaphthalene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
2-Chlorophenol	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
2-Methylnaphthalene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
2-Methylphenol	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
2-Nitroaniline	910.000	ug/kg C U	940.000	ug/kg C U	9400.000	ug/kg C U
2-Nitrophenol	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
3,3'-Dichlorobenzidine	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C R

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11036	11037	11041			
SAMPLE NUMBER	115380	115372	115389			
SAMPLING DATE	17-19	17-5-20	0-2.5			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>						
3-Nitroaniline	910.000	ug/kg C U	940.000	ug/kg C UJ	9400.000	ug/kg C UJ
4,6-Dinitro-2-methylphenol	910.000	ug/kg C U	940.000	ug/kg C U	9400.000	ug/kg C U
4-Bromophenyl phenyl ether	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
4-Chloro-3-methylphenol	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
4-Chlorophenylphenyl ether	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
4-Methylphenol	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
4-Nitroaniline	910.000	ug/kg C U	940.000	ug/kg C U	9400.000	ug/kg C U
4-Nitrophenol	910.000	ug/kg C U	940.000	ug/kg C U	9400.000	ug/kg C U
Acenaphthene	370.000	ug/kg C U	390.000	ug/kg C U	5800.000	ug/kg C U
Acenaphthylene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Anthracene	370.000	ug/kg C U	390.000	ug/kg C U	9700.000	ug/kg C U
Benzo(a)anthracene	370.000	ug/kg C U	390.000	ug/kg C U	18000.000	ug/kg C U
Benzo(a)pyrene	370.000	ug/kg C U	390.000	ug/kg C U	13000.000	ug/kg C U
Benzo(b)fluoranthene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Benzo(g,h,i)perylene	370.000	ug/kg C U	390.000	ug/kg C U	5800.000	ug/kg C U
Benzo(k)fluoranthene	370.000	ug/kg C U	390.000	ug/kg C U	25000.000	ug/kg C U
Butyl benzyl phthalate	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Carbazole	370.000	ug/kg C U	390.000	ug/kg C U	4200.000	ug/kg C U
Chrysene	370.000	ug/kg C U	390.000	ug/kg C U	18000.000	ug/kg C U
Di-n-butyl phthalate	52.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Di-n-octyl phthalate	370.000	ug/kg C U	55.000	ug/kg C U	3900.000	ug/kg C U
Dibenzo(a,h)anthracene	370.000	ug/kg C U	390.000	ug/kg C U	3000.000	ug/kg C U
Dibenzofuran	370.000	ug/kg C U	390.000	ug/kg C U	3000.000	ug/kg C U
Diethyl phthalate	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Dimethyl phthalate	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Fluoranthene	370.000	ug/kg C U	390.000	ug/kg C U	48000.000	ug/kg C U
Fluorene	370.000	ug/kg C U	390.000	ug/kg C U	6000.000	ug/kg C U
Hexachlorobenzene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Hexachlorobutadiene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Hexachlorocyclopentadiene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Hexachloroethane	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	370.000	ug/kg C U	390.000	ug/kg C U	6500.000	ug/kg C U
Isophorone	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
N-Nitroso-di-n-propylamine	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
N-Nitrosodiphenylamine	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Naphthalene	370.000	ug/kg C U	390.000	ug/kg C U	1700.000	ug/kg C U
Nitrobenzene	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Pentachlorophenol	910.000	ug/kg C U	940.000	ug/kg C U	9400.000	ug/kg C U
Phenanthrene	370.000	ug/kg C U	390.000	ug/kg C U	48000.000	ug/kg C U
Phenol	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
Pyrene	370.000	ug/kg C U	390.000	ug/kg C U	38000.000	ug/kg C U
bis(2-Chloroethoxy)methane	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11036	11037	11041			
SAMPLE NUMBER	115380	115372	115389			
SAMPLING DATE	17-19	17-5-20	0-2-5			
SAMPLING DATE	05/17/93	05/15/93	05/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>						
bis(2-Chloroethyl)ether	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
bis(2-Chloroisopropyl) ether	370.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	1600.000	ug/kg C U	390.000	ug/kg C U	3900.000	ug/kg C U
p-Chloroaniline	370.000	ug/kg C U	390.000	ug/kg C UJ	3900.000	ug/kg C R
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	3.800	ug/kg C U	3.900	ug/kg C UJ	4.300	ug/kg C JJ
4,4'-DDE	3.800	ug/kg C UJ	3.900	ug/kg C U	3.900	ug/kg C JJ
4,4'-DDT	3.800	ug/kg C U	3.900	ug/kg C U	3.900	ug/kg C JJ
Aldrin	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
Aroclor-1016	38.000	ug/kg C U	39.000	ug/kg C U	39.000	ug/kg C U
Aroclor-1221	77.000	ug/kg C U	79.000	ug/kg C U	79.000	ug/kg C U
Aroclor-1232	38.000	ug/kg C U	39.000	ug/kg C U	39.000	ug/kg C U
Aroclor-1242	38.000	ug/kg C U	39.000	ug/kg C U	39.000	ug/kg C U
Aroclor-1248	38.000	ug/kg C U	39.000	ug/kg C U	39.000	ug/kg C U
Aroclor-1254	38.000	ug/kg C U	39.000	ug/kg C U	39.000	ug/kg C U
Aroclor-1260	38.000	ug/kg C U	39.000	ug/kg C U	39.000	ug/kg C U
Dieldrin	3.800	ug/kg C U	3.900	ug/kg C U	13.000	ug/kg C U
Endosulfan II	3.800	ug/kg C U	3.900	ug/kg C U	3.900	ug/kg C U
Endosulfan sulfate	3.800	ug/kg C U	3.900	ug/kg C U	3.900	ug/kg C U
Endosulfan-I	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
Endrin	3.800	ug/kg C U	3.900	ug/kg C U	3.900	ug/kg C U
Endrin aldehyde	3.800	ug/kg C U	3.900	ug/kg C U	180.000	ug/kg C U
Endrin ketone	3.800	ug/kg C U	3.900	ug/kg C U	3.900	ug/kg C U
Heptachlor	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
Heptachlor epoxide	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
Methoxychlor	20.000	ug/kg C U	20.000	ug/kg C U	20.000	ug/kg C U
Toxaphene	200.000	ug/kg C U	200.000	ug/kg C U	200.000	ug/kg C U
alpha-BHC	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
alpha-Chlordane	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
beta-BHC	2.000	ug/kg C UJ	2.000	ug/kg C U	2.000	ug/kg C U
delta-BHC	2.000	ug/kg C UJ	2.000	ug/kg C U	2.000	ug/kg C U
gamma-BHC (Lindane)	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
gamma-Chlordane	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11040	11041	11040
SAMPLE NUMBER	115392	115390	115393
SAMPLING DATE	2.5-5 05/20/93	12.5-15 05/19/93	12.5-15 05/20/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Inorganics</u>			
Aluminum	14100.000	mg/kg	C UJ
Antimony	1.100	mg/kg	C UJ
Arsenic	5.900	mg/kg	C -
Barium	102.000	mg/kg	C -
Beryllium	0.690	mg/kg	C -
Cadmium	1.100	mg/kg	C U
Calcium	60400.000	mg/kg	C -
Chromium	15.100	mg/kg	C -
Cobalt	7.400	mg/kg	C -
Copper	18.200	mg/kg	C -
Cyanide	0.120	mg/kg	C UJ
Iron	22700.000	mg/kg	C -
Lead	12.600	mg/kg	C -
Magnesium	13800.000	mg/kg	C -
Manganese	632.000	mg/kg	C -
Mercury	0.100	mg/kg	C U
Molybdenum	6.400	mg/kg	C -
Nickel	19.600	mg/kg	C -
Potassium	1680.000	mg/kg	C -
Selenium	0.330	mg/kg	C U
Silicon	981.000	mg/kg	C -
Silver	6.300	mg/kg	C -
Sodium	162.000	mg/kg	C -
Thallium	0.330	mg/kg	C U
Vanadium	35.800	mg/kg	C -
Zinc	63.000	mg/kg	C -
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg	C U
1,1,2,2-Tetrachloroethane	12.000	ug/kg	C UU
1,1,2-Trichloroethane	12.000	ug/kg	C UU
1,1-Dichloroethane	12.000	ug/kg	C UU
1,1-Dichloroethene	12.000	ug/kg	C UU
1,2-Dichloroethane	12.000	ug/kg	C UU
1,2-Dichloroethene	12.000	ug/kg	C UU
1,2-Dichloropropane	12.000	ug/kg	C UU
2-Butanone	12.000	ug/kg	C UU
2-Hexanone	12.000	ug/kg	C UU
4-Methyl-2-pentanone	12.000	ug/kg	C UU
Acetone	12.000	ug/kg	C UU
Benzene	12.000	ug/kg	C U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11040	11041	11040			
SAMPLE NUMBER	115392	115390	115393			
SAMPLING DATE	2.5-5 05/20/93	12.5-15 05/19/93	12.5-15 05/20/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Bromoform	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Bromomethane	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Carbon Tetrachloride	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Chloroform	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Chloromethane	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Dibromochloromethane	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Methylene chloride	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Styrene	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Toluene	12.000	ug/kg C U	2.000	ug/kg C U	13.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Vinyl Acetate	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Vinyl chloride	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	11.000	ug/kg C U	13.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
1,2-Dichlorobenzene	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
1,3-Dichlorobenzene	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
1,4-Dichlorobenzene	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
2,4,5-Trichlorophenol	950.000	ug/kg C U	940.000	ug/kg C U	1000.000	ug/kg C U
2,4,6-Trichlorophenol	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
2,4-Dichlorophenol	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
2,4-Dimethylphenol	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
2,4-Dinitrophenol	950.000	ug/kg C U	940.000	ug/kg C U	1000.000	ug/kg C U
2,4-Dinitrotoluene	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
2,6-Dinitrotoluene	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
2-Benzyl-4-chlorophenol	390.000	ug/kg C U	NA		430.000	ug/kg C U
2-Chloronaphthalene	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
2-Chlorophenol	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
2-Methylnaphthalene	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
2-Methylphenol	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U
2-Nitroaniline	950.000	ug/kg C U	940.000	ug/kg C U	1000.000	ug/kg C U
2-Nitrophenol	390.000	ug/kg C U	390.000	ug/kg C U	430.000	ug/kg C U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11040	11041	11040
SAMPLE NUMBER	115392	115390	115393
SAMPLING DATE	2.5-5 05/20/93	12.5-15 05/19/93	12.5-15 05/20/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
3,3'-Dichlorobenzidine	390.000	ug/kg C U	390.000
3-Nitroaniline	950.000	ug/kg C R	940.000
4,6-Dinitro-2-methylphenol	950.000	ug/kg C UJ	940.000
4-Bromophenyl phenyl ether	390.000	ug/kg C U	390.000
4-Chloro-3-methylphenol	390.000	ug/kg C U	390.000
4-Chlorophenylphenyl ether	390.000	ug/kg C U	390.000
4-Methylphenol	390.000	ug/kg C U	390.000
4-Nitroaniline	950.000	ug/kg C U	940.000
4-Nitrophenol	950.000	ug/kg C U	940.000
Acenaphthene	390.000	ug/kg C U	390.000
Acenaphthylene	390.000	ug/kg C U	390.000
Anthracene	100.000	ug/kg C U	390.000
Benzo(a)anthracene	350.000	ug/kg C U	390.000
Benzo(a)pyrene	320.000	ug/kg C U	390.000
Benzo(b)fluoranthene	290.000	ug/kg C U	390.000
Benzo(g,h,i)perylene	190.000	ug/kg C U	390.000
Benzo(k)fluoranthene	290.000	ug/kg C U	390.000
Benzoic acid	1900.000	ug/kg C UJ	NA
Benzyl alcohol	390.000	ug/kg C R	NA
Butyl benzyl phthalate	390.000	ug/kg C U	390.000
Carbazole	58.000	ug/kg C U	390.000
Chrysene	370.000	ug/kg C U	390.000
Di-n-butyl phthalate	390.000	ug/kg C U	390.000
Di-n-octyl phthalate	390.000	ug/kg C U	390.000
Dibenz(a,h)anthracene	96.000	ug/kg C U	390.000
Dibenzofuran	390.000	ug/kg C U	390.000
Diethyl phthalate	390.000	ug/kg C U	390.000
Dimethyl phthalate	390.000	ug/kg C U	390.000
Fluoranthene	770.000	ug/kg C U	390.000
Fluorene	390.000	ug/kg C U	390.000
Hexachlorobenzene	390.000	ug/kg C U	390.000
Hexachlorobutadiene	390.000	ug/kg C U	390.000
Hexachlorocyclopentadiene	390.000	ug/kg C U	390.000
Hexachloroethane	390.000	ug/kg C U	390.000
Indeno(1,2,3-cd)pyrene	200.000	ug/kg C U	390.000
Isophorone	390.000	ug/kg C U	390.000
N-Nitroso-di-n-propylamine	390.000	ug/kg C U	390.000
N-Nitrosodimethylamine	390.000	ug/kg C U	NA
N-Nitrosodiphenylamine	390.000	ug/kg C U	390.000
Naphthalene	390.000	ug/kg C U	390.000
Nitrobenzene	390.000	ug/kg C U	390.000
Pentachlorophenol	950.000	ug/kg C	940.000
			1000.000

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	11040	11041	11040
SAMPLE NUMBER	115392	115390	115393
SAMPLING DATE	2.5-5 05/20/93	12.5-15 05/19/93	12.5-15 05/20/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Phenanthrene	440.000	ug/kg C -	390.000
Phenol	390.000	ug/kg C U	390.000
Pyrene	640.000	ug/kg C -	390.000
Tributyl phosphate	390.000	ug/kg C U	NA
bis(2-Chloroethoxy)methane	390.000	ug/kg C U	390.000
bis(2-Chloroethyl)ether	390.000	ug/kg C U	390.000
bis(2-Chloroisopropyl) ether	390.000	ug/kg C U	390.000
bis(2-Ethylhexyl) phthalate	48.000	ug/kg C U	390.000
p-Chloroaniline	390.000	ug/kg C U	390.000
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	4.000	ug/kg C UJ	3.800
4,4'-DDE	4.000	ug/kg C U	3.800
4,4'-DDT	4.000	ug/kg C U	3.800
Aldrin	2.000	ug/kg C U	2.000
Aroclor-1016	40.000	ug/kg C U	38.000
Aroclor-1221	81.000	ug/kg C U	78.000
Aroclor-1232	40.000	ug/kg C U	38.000
Aroclor-1242	40.000	ug/kg C U	38.000
Aroclor-1248	40.000	ug/kg C U	38.000
Aroclor-1254	40.000	ug/kg C U	38.000
Aroclor-1260	40.000	ug/kg C U	38.000
Dieldrin	4.000	ug/kg C UU	3.800
Endosulfan II	4.000	ug/kg C UU	3.800
Endosulfan sulfate	4.000	ug/kg C UU	3.800
Endosulfan-I	2.000	ug/kg C UU	2.000
Endrin	4.000	ug/kg C UU	3.800
Endrin aldehyde	4.000	ug/kg C UU	3.800
Endrin ketone	4.000	ug/kg C UU	3.800
Heptachlor	2.000	ug/kg C UU	2.000
Heptachlor epoxide	2.000	ug/kg C UU	2.000
Methoxychlor	20.000	ug/kg C UU	20.000
Toxaphene	200.000	ug/kg C UU	200.000
alpha-BHC	2.000	ug/kg C UU	2.000
alpha-Chlordane	2.000	ug/kg C UU	2.000
beta-BHC	2.000	ug/kg C UU	2.000
delta-BHC	2.000	ug/kg C UU	2.000
gamma-BHC (Lindane)	2.000	ug/kg C UU	2.000
gamma-Chlordane	2.000	ug/kg C UU	2.000

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1982	1982	1983
SAMPLE NUMBER	111484	111487	111476
SAMPLING DATE	0-2.5 05/06/93	7.5-10 05/06/93	1.5-2.5 05/03/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	15200.000	mg/kg C UJ	6490.000
Antimony	0.220	mg/kg C UJ	0.220
Arsenic	7.500	mg/kg C J	5.500
Barium	104.000	mg/kg C J	65.100
Beryllium	0.960	mg/kg C	0.390
Cadmium	1.300	mg/kg C J	0.700
Calcium	33600.000	mg/kg C J	111000.000
Chromium	18.100	mg/kg C	9.900
Cobalt	9.900	mg/kg C	11.100
Copper	19.400	mg/kg C J	13.600
Cyanide	0.110	mg/kg C R	0.450
Iron	24000.000	mg/kg C J	15100.000
Lead	12.000	mg/kg C J	8.200
Magnesium	7520.000	mg/kg C J	32400.000
Manganese	516.000	mg/kg C	460.000
Mercury	0.090	mg/kg C	0.090
Molybdenum	1.900	mg/kg C	2.500
Nickel	23.000	mg/kg C	17.300
Potassium	1470.000	mg/kg C J	1370.000
Selenium	0.220	mg/kg C	0.220
Silicon	607.000	mg/kg C	690.000
Silver	0.440	mg/kg C	0.450
Sodium	90.800	mg/kg C	179.000
Thallium	0.220	mg/kg C	0.220
Vanadium	28.200	mg/kg C	17.300
Zinc	59.000	mg/kg C	40.500
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg C U	11.000
1,1,2,2-Tetrachloroethane	12.000	ug/kg C U	11.000
1,1,2-Trichloroethane	12.000	ug/kg C	11.000
1,1-Dichloroethane	12.000	ug/kg C	11.000
1,1-Dichloroethene	12.000	ug/kg C	11.000
1,2-Dichloroethane	12.000	ug/kg C	11.000
1,2-Dichloroethene	12.000	ug/kg C	11.000
1,2-Dichloropropane	12.000	ug/kg C	11.000
2-Butanone	12.000	ug/kg C	11.000
2-Hexanone	12.000	ug/kg C	11.000
4-Methyl-2-pentanone	12.000	ug/kg C	11.000
Acetone	12.000	ug/kg C	11.000
Benzene	12.000	ug/kg C	11.000

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1982	1982	1983			
SAMPLE NUMBER	111484	111487	111476			
SAMPLING DATE	0-2.5 05/06/93	7.5-10 05/06/93	1.5-2.5 05/03/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg C U
Bromoform	12.000	ug/kg C UU	11.000	ug/kg C C	12.000	ug/kg C UU
Bromomethane	12.000	ug/kg C UU	11.000	ug/kg C C	12.000	ug/kg C UU
Carbon Tetrachloride	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Carbon disulfide	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Chlorobenzene	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Chloroethane	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Chloroform	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Chloromethane	12.000	ug/kg C UU	11.000	ug/kg C C	12.000	ug/kg C UU
Dibromochloromethane	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Ethylbenzene	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Methylene chloride	22.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Styrene	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Tetrachloroethene	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Toluene	2.000	ug/kg C C	1.000	ug/kg C C	12.000	ug/kg C C
Trichloroethene	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Vinyl Acetate	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Vinyl chloride	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
Xylenes, Total	12.000	ug/kg C C	11.000	ug/kg C C	12.000	ug/kg C C
cis-1,3-Dichloropropene	12.000	ug/kg C U	11.000	ug/kg C C	12.000	ug/kg C C
trans-1,3-Dichloropropene	12.000	ug/kg C U	11.000	ug/kg C C	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	390.000	ug/kg C U	370.000	ug/kg C U	400.000	ug/kg C U
1,2-Dichlorobenzene	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
1,3-Dichlorobenzene	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
1,4-Dichlorobenzene	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
2,4,5-Trichlorophenol	940.000	ug/kg C C	900.000	ug/kg C C	980.000	ug/kg C C
2,4,6-Trichlorophenol	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
2,4-Dichlorophenol	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
2,4-Dimethylphenol	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
2,4-Dinitrophenol	940.000	ug/kg C UU	900.000	ug/kg C C	980.000	ug/kg C UU
2,4-Dinitrotoluene	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
2,6-Dinitrotoluene	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
2-Chloronaphthalene	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
2-Chlorophenol	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
2-Methylnaphthalene	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
2-Methylphenol	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
2-Nitroaniline	940.000	ug/kg C UU	900.000	ug/kg C C	980.000	ug/kg C UU
2-Nitrophenol	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU
3,3'-Dichlorobenzidine	390.000	ug/kg C UU	370.000	ug/kg C C	400.000	ug/kg C UU

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3-Nitroaniline	940.000	ug/kg	C	UJ	900.000	ug/kg	C	UJ	980.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	940.000	ug/kg	C	UJ	900.000	ug/kg	C	UJ	980.000	ug/kg	C	U
4-Bromophenyl phenyl ether	390.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	400.000	ug/kg	C	U
4-Chloro-3-methylphenol	390.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	400.000	ug/kg	C	U
4-Chlorophenylphenyl ether	390.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	400.000	ug/kg	C	U
4-Methylphenol	390.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	400.000	ug/kg	C	U
4-Nitroaniline	940.000	ug/kg	C	UJ	900.000	ug/kg	C	UJ	980.000	ug/kg	C	U
4-Nitrophenol	940.000	ug/kg	C	UJ	900.000	ug/kg	C	UJ	980.000	ug/kg	C	U
Acenaphthene	55.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	400.000	ug/kg	C	U
Acenaphthylene	390.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	400.000	ug/kg	C	U
Anthracene	77.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	400.000	ug/kg	C	U
Benzo(a)anthracene	170.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	49.000	ug/kg	C	U
Benzo(a)pyrene	120.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	47.000	ug/kg	C	U
Benzo(b)fluoranthene	180.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	49.000	ug/kg	C	U
Benzo(g,h,i)perylene	86.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	400.000	ug/kg	C	U
Benzo(k)fluoranthene	120.000	ug/kg	C	UJ	370.000	ug/kg	C	UJ	56.000	ug/kg	C	U
Benzoic acid	NA				NA				2000.000	ug/kg	C	U
Benzyl alcohol	NA				NA				400.000	ug/kg	C	U
Butyl benzyl phthalate	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Carbazole	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Chrysene	200.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Di-n-butyl phthalate	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Di-n-octyl phthalate	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Dibenzo(a,h)anthracene	40.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Dibenzofuran	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Diethyl phthalate	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Dimethyl phthalate	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Fluoranthene	480.000	ug/kg	C	U	370.000	ug/kg	C	U	130.000	ug/kg	C	U
Fluorene	46.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachlorobenzene	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachlorobutadiene	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachlorocyclopentadiene	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachloroethane	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	91.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Isophorone	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
N-Nitrosodiphenylamine	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Naphthalene	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Nitrobenzene	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U
Pentachlorophenol	940.000	ug/kg	C	U	900.000	ug/kg	C	U	980.000	ug/kg	C	U
Phenanthrene	410.000	ug/kg	C	U	370.000	ug/kg	C	U	66.000	ug/kg	C	U
Phenol	390.000	ug/kg	C	U	370.000	ug/kg	C	U	400.000	ug/kg	C	U

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5123TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1982	1982	1983
SAMPLE NUMBER	111484	111487	111476
SAMPLING DATE	0-2.5 05/06/93	7.5-10 05/06/93	1.5-2.5 05/03/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Pyrene	350.000	ug/kg C J	370.000
bis(2-Chloroethoxy)methane	390.000	ug/kg C U	400.000
bis(2-Chloroethyl)ether	390.000	ug/kg C U	400.000
bis(2-Chloroisopropyl) ether	390.000	ug/kg C U	400.000
bis(2-Ethylhexyl) phthalate	260.000	ug/kg C U	3200.000
p-Chloroaniline	390.000	ug/kg C U	400.000
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	3.900	ug/kg C U	3.700
4,4'-DDE	3.900	ug/kg C U	3.700
4,4'-DDT	3.900	ug/kg C U	3.700
Aldrin	2.000	ug/kg C U	1.900
Aroclor-1016	39.000	ug/kg C U	37.000
Aroclor-1221	78.000	ug/kg C U	76.000
Aroclor-1232	39.000	ug/kg C U	37.000
Aroclor-1242	39.000	ug/kg C U	37.000
Aroclor-1248	39.000	ug/kg C U	37.000
Aroclor-1254	48.000	ug/kg C U	37.000
Aroclor-1260	39.000	ug/kg C U	37.000
Dieldrin	3.900	ug/kg C U	3.700
Endosulfan II	3.900	ug/kg C U	3.700
Endosulfan sulfate	3.900	ug/kg C U	3.700
Endosulfan-I	2.000	ug/kg C U	1.900
Endrin	3.900	ug/kg C U	3.700
Endrin aldehyde	3.900	ug/kg C U	3.700
Endrin ketone	3.900	ug/kg C U	3.700
Heptachlor	2.000	ug/kg C U	1.900
Heptachlor epoxide	2.000	ug/kg C U	1.900
Methoxychlor	20.000	ug/kg C U	19.000
Toxaphene	200.000	ug/kg C U	190.000
alpha-BHC	2.000	ug/kg C U	1.900
alpha-Chlordane	2.000	ug/kg C U	1.900
beta-BHC	2.000	ug/kg C U	1.900
delta-BHC	2.000	ug/kg C U	1.900
gamma-BHC (Lindane)	2.000	ug/kg C U	1.900
gamma-Chlordane	2.000	ug/kg C U	1.900

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1983	1983	1984
SAMPLE NUMBER	111477	111480	111466
SAMPLING DATE	2.5-5 05/03/93	17.5-20 05/05/93	2.5-5 05/01/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	13900.000	mg/kg C -	6060.000
Antimony	0.620	mg/kg C R	0.220
Arsenic	5.400	mg/kg C	9.000
Barium	90.800	mg/kg C	82.700
Beryllium	1.800	mg/kg C	0.380
Cadmium	1.100	mg/kg C	0.730
Calcium	58900.000	mg/kg C	110000.000
Chromium	18.000	mg/kg C	8.500
Cobalt	10.800	mg/kg C	6.300
Copper	20.900	mg/kg C	15.300
Cyanide	0.120	mg/kg C	0.110
Iron	23800.000	mg/kg C	14600.000
Lead	13.100	mg/kg C	7.300
Magnesium	15300.000	mg/kg C	32600.000
Manganese	569.000	mg/kg C	489.000
Mercury	0.120	mg/kg C	0.090
Molybdenum	1.700	mg/kg C	2.800
Nickel	22.600	mg/kg C	13.600
Potassium	1690.000	mg/kg C	1420.000
Selenium	0.240	mg/kg C	0.220
Silicon	706.000	mg/kg C	557.000
Silver	0.480	mg/kg C	0.440
Sodium	150.000	mg/kg C	178.000
Thallium	0.290	mg/kg C	0.220
Vanadium	31.100	mg/kg C	16.100
Zinc	58.600	mg/kg C	33.600
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg C U	11.000
1,1,2,2-Tetrachloroethane	12.000	ug/kg C U	11.000
1,1,2-Trichloroethane	12.000	ug/kg C U	11.000
1,1-Dichloroethane	12.000	ug/kg C U	11.000
1,1-Dichloroethene	12.000	ug/kg C U	11.000
1,2-Dichloroethane	12.000	ug/kg C U	11.000
1,2-Dichloroethene	12.000	ug/kg C U	11.000
1,2-Dichloropropane	12.000	ug/kg C U	11.000
2-Butanone	12.000	ug/kg C U	11.000
2-Hexanone	12.000	ug/kg C U	11.000
4-Methyl-2-pentanone	12.000	ug/kg C U	11.000
Acetone	12.000	ug/kg C U	11.000
Benzene	12.000	ug/kg C U	11.000

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1983	1983	1984			
SAMPLE NUMBER	111477	111480	111466			
SAMPLING DATE	2.5-5 05/03/93	17.5-20 05/05/93	2.5-5 05/01/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Bromoform	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Bromomethane	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Carbon Tetrachloride	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	2.000	ug/kg D U	11.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Chloroform	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Chloromethane	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Dibromochloromethane	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Methylene chloride	12.000	ug/kg C U	15.000	ug/kg D U	11.000	ug/kg C U
Styrene	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Tetrachloroethane	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Toluene	2.000	ug/kg C U	11.000	ug/kg D U	2.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Vinyl Acetate	NA		11.000	ug/kg D U	NA	
Vinyl chloride	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	11.000	ug/kg D U	11.000	ug/kg C U
Semivolatile Organics						
1,2,4-Trichlorobenzene	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
1,2-Dichlorobenzene	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
1,3-Dichlorobenzene	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
1,4-Dichlorobenzene	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
2,4,5-Trichlorophenol	940.000	ug/kg C U	880.000	ug/kg D U	880.000	ug/kg C U
2,4,6-Trichlorophenol	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
2,4-Dichlorophenol	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
2,4-Dimethylphenol	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
2,4-Dinitrophenol	940.000	ug/kg C U	880.000	ug/kg D U	880.000	ug/kg C U
2,4-Dinitrotoluene	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
2,6-Dinitrotoluene	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
2-Chloronaphthalene	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
2-Chlorophenol	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
2-Methylnaphthalene	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
2-Methylphenol	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
2-Nitroaniline	940.000	ug/kg C U	880.000	ug/kg D U	880.000	ug/kg C U
2-Nitrophenol	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
3,3'-Dichlorobenzidine	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1983	1983	1984			
SAMPLE NUMBER	111477	111480	111466			
SAMPLING DATE	2.5-5 05/03/93	17.5-20 05/05/93	2.5-5 05/01/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>						
3-Nitroaniline	940.000	ug/kg C U	880.000	ug/kg D UJ	880.000	ug/kg C UJ
4,6-Dinitro-2-methylphenol	940.000	ug/kg C U	880.000	ug/kg C U	880.000	ug/kg C U
4-Bromophenyl phenyl ether	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
4-Chloro-3-methylphenol	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
4-Chlorophenylphenyl ether	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
4-Methylphenol	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
4-Nitroaniline	940.000	ug/kg C C U	880.000	ug/kg D C U	880.000	ug/kg C C U
4-Nitrophenol	940.000	ug/kg C C U	880.000	ug/kg D C U	880.000	ug/kg C C U
Acenaphthene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Acenaphthylene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Anthracene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Benzo(a)anthracene	78.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Benzo(a)pyrene	64.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Benzo(b)fluoranthene	66.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Benzo(g,h,i)perylene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Benzo(k)fluoranthene	97.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Benzoic acid	1900.000	ug/kg C C U	NA NA		1800.000	ug/kg C C U
Benzyl alcohol	390.000	ug/kg C C U			360.000	ug/kg C C U
Butyl benzyl phthalate	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Carbazole	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Chrysene	99.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Di-n-butyl phthalate	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Di-n-octyl phthalate	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Dibenzo(a,h)anthracene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Dibenzofuran	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Diethyl phthalate	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Dimethyl phthalate	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Fluoranthene	190.000	ug/kg C C U	360.000	ug/kg D C U	46.000	ug/kg C C U
Fluorene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Hexachlorobenzene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Hexachlorobutadiene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Hexachlorocyclopentadiene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Hexachloroethane	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Indeno(1,2,3-cd)pyrene	45.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Isophorone	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
N-Nitroso-di-n-propylamine	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
N-Nitrosodiphenylamine	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Naphthalene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Nitrobenzene	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Pentachlorophenol	940.000	ug/kg C C U	880.000	ug/kg D C U	880.000	ug/kg C C U
Phenanthrene	120.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U
Phenol	390.000	ug/kg C C U	360.000	ug/kg D C U	360.000	ug/kg C C U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1983	1983	1984			
SAMPLE NUMBER	111477	111480	111466			
SAMPLING DATE	2.5-5 05/03/93	17.5-20 05/05/93	2.5-5 05/01/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	170.000	ug/kg C J	360.000	ug/kg D U	44.000	ug/kg C J
bis(2-Chloroethoxy)methane	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
bis(2-Chloroethyl)ether	390.000	ug/kg C UU	360.000	ug/kg D UU	360.000	ug/kg C UU
bis(2-Chloroisopropyl) ether	390.000	ug/kg C UU	360.000	ug/kg D UU	360.000	ug/kg C UU
bis(2-Ethylhexyl) phthalate	67.000	ug/kg C U	360.000	ug/kg D U	700.000	ug/kg C -
p-Chloroaniline	390.000	ug/kg C U	360.000	ug/kg D U	360.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	3.900	ug/kg C U	3.600	ug/kg D U	3.700	ug/kg C U
4,4'-DDE	3.900	ug/kg C UU	3.600	ug/kg D UU	3.700	ug/kg C UU
4,4'-DDT	3.900	ug/kg C UUU	3.600	ug/kg D UUU	3.700	ug/kg C UUU
Aldrin	2.000	ug/kg C U	1.900	ug/kg D U	1.900	ug/kg C U
Aroclor-1016	39.000	ug/kg C UU	36.000	ug/kg D UU	37.000	ug/kg C UU
Aroclor-1221	79.000	ug/kg C UUU	73.000	ug/kg D UUU	74.000	ug/kg C UUU
Aroclor-1232	39.000	ug/kg C UUU	36.000	ug/kg D UUU	37.000	ug/kg C UUU
Aroclor-1242	39.000	ug/kg C UUU	36.000	ug/kg D UUU	37.000	ug/kg C UUU
Aroclor-1248	39.000	ug/kg C UUU	36.000	ug/kg D UUU	37.000	ug/kg C UUU
Aroclor-1254	39.000	ug/kg C UUU	36.000	ug/kg D UUU	37.000	ug/kg C UUU
Aroclor-1260	39.000	ug/kg C UUU	36.000	ug/kg D UUU	37.000	ug/kg C UUU
Dieldrin	3.900	ug/kg C U	3.600	ug/kg D U	3.700	ug/kg C U
Endosulfan II	3.900	ug/kg C U	3.600	ug/kg D U	3.700	ug/kg C U
Endosulfan sulfate	3.900	ug/kg C UU	3.600	ug/kg D UU	3.700	ug/kg C UU
Endosulfan-I	2.000	ug/kg C UUU	1.900	ug/kg D UUU	1.900	ug/kg C UUU
Endrin	3.900	ug/kg C U	3.600	ug/kg D U	3.700	ug/kg C U
Endrin aldehyde	3.900	ug/kg C U	3.600	ug/kg D U	3.700	ug/kg C U
Endrin ketone	3.900	ug/kg C U	3.600	ug/kg D U	3.700	ug/kg C U
Heptachlor	2.000	ug/kg C U	1.900	ug/kg D U	1.900	ug/kg C U
Heptachlor epoxide	2.000	ug/kg C U	1.900	ug/kg D U	1.900	ug/kg C U
Methoxychlor	20.000	ug/kg C UU	19.000	ug/kg D UU	19.000	ug/kg C UU
Toxaphene	200.000	ug/kg C UUU	190.000	ug/kg D UUU	190.000	ug/kg C UUU
alpha-BHC	2.000	ug/kg C U	1.900	ug/kg D U	1.900	ug/kg C U
alpha-Chlordane	2.000	ug/kg C U	1.900	ug/kg D U	1.900	ug/kg C U
beta-BHC	2.000	ug/kg C U	1.900	ug/kg D U	1.900	ug/kg C U
delta-BHC	2.000	ug/kg C U	1.900	ug/kg D U	1.900	ug/kg C U
gamma-BHC (Lindane)	2.000	ug/kg C U	1.900	ug/kg D U	1.900	ug/kg C U
gamma-Chlordane	2.000	ug/kg C U	1.900	ug/kg D U	1.900	ug/kg C U

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1984	1985	1985
SAMPLE NUMBER	111468	111441	111448
SAMPLING DATE	12-5-15 05/01/93	2-4 04/26/93	15-17 04/27/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Inorganics</u>			
Aluminum	16000.000	mg/kg C	-
Antimony	0.530	mg/kg C	UJ
Arsenic	8.400	mg/kg C	J
Barium	163.000	mg/kg C	J
Beryllium	1.400	mg/kg C	-
Cadmium	2.000	mg/kg C	-
Calcium	43300.000	mg/kg C	J
Chromium	22.500	mg/kg C	-
Cobalt	20.400	mg/kg C	-
Copper	26.900	mg/kg C	-
Cyanide	0.120	mg/kg C	UJ
Iron	32500.000	mg/kg C	J
Lead	11.500	mg/kg C	J
Magnesium	21200.000	mg/kg C	-
Manganese	1130.000	mg/kg C	-
Mercury	0.120	mg/kg C	-
Molybdenum	2.700	mg/kg C	U
Nickel	36.500	mg/kg C	-
Potassium	2330.000	mg/kg C	J
Selenium	0.240	mg/kg C	UJ
Silicon	1410.000	mg/kg C	-
Silver	0.480	mg/kg C	U
Sodium	166.000	mg/kg C	U
Thallium	0.240	mg/kg C	U
Vanadium	33.600	mg/kg C	J
Zinc	73.000	mg/kg C	J
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg C	U
1,1,2,2-Tetrachloroethane	12.000	ug/kg C	U
1,1,2-Trichloroethane	12.000	ug/kg C	U
1,1-Dichloroethane	12.000	ug/kg C	U
1,1-Dichloroethene	12.000	ug/kg C	U
1,2-Dichloroethane	12.000	ug/kg C	U
1,2-Dichloroethene	12.000	ug/kg C	U
1,2-Dichloropropane	12.000	ug/kg C	U
2-Butanone	12.000	ug/kg C	U
2-Hexanone	12.000	ug/kg C	U
4-Methyl-2-pentanone	12.000	ug/kg C	U
Acetone	12.000	ug/kg C	U
Benzene	12.000	ug/kg C	U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1984	1985	1985			
SAMPLE NUMBER	111468	111441	111448			
SAMPLING DATE	12.5-15 05/01/93	2-4 04/26/93	15-17 04/27/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Bromoform	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Bromomethane	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Carbon Tetrachloride	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Chloroform	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Chloromethane	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Dibromochloromethane	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Methylene chloride	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Styrene	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Toluene	2.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Vinyl Acetate	NA	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Vinyl chloride	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	11.000	ug/kg D U	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	410.000	ug/kg C UJ	370.000	ug/kg D UJ	380.000	ug/kg C UJ
1,2-Dichlorobenzene	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
1,3-Dichlorobenzene	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
1,4-Dichlorobenzene	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
2,4,5-Trichlorophenol	1000.000	ug/kg C U	900.000	ug/kg D U	930.000	ug/kg C U
2,4,6-Trichlorophenol	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
2,4-Dichlorophenol	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
2,4-Dimethylphenol	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
2,4-Dinitrophenol	1000.000	ug/kg C UJ	900.000	ug/kg D UJ	930.000	ug/kg C UJ
2,4-Dinitrotoluene	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
2,6-Dinitrotoluene	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
2-Chloronaphthalene	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
2-Chlorophenol	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
2-Methylnaphthalene	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
2-Methylphenol	410.000	ug/kg C UJ	370.000	ug/kg D UJ	380.000	ug/kg C UJ
2-Nitroaniline	1000.000	ug/kg C U	900.000	ug/kg D U	930.000	ug/kg C U
2-Nitrophenol	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U
3,3'-Dichlorobenzidine	410.000	ug/kg C U	370.000	ug/kg D U	380.000	ug/kg C U

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1984	1985				1985			
SAMPLE NUMBER	111468	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
SAMPLING DATE	12-5-15 05/01/93					04/26/93			
CHEMICAL PARAMETERS									
<u>Semivolatile Organics</u>									
3-Nitroaniline	1000.000	ug/kg	C	UJ		900.000	ug/kg	D	UJ
4,6-Dinitro-2-methylphenol	1000.000	ug/kg	C	UJ		900.000	ug/kg	D	UJ
4-Bromophenyl phenyl ether	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
4-Chloro-3-methylphenol	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
4-Chlorophenylphenyl ether	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
4-Methylphenol	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
4-Nitroaniline	1000.000	ug/kg	C	R		900.000	ug/kg	D	UJ
4-Nitrophenol	1000.000	ug/kg	C	UJ		900.000	ug/kg	D	UJ
Acenaphthene	410.000	ug/kg	C	UJ		93.000	ug/kg	D	UJ
Acenaphthylene	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Anthracene	410.000	ug/kg	C	UJ		180.000	ug/kg	D	UJ
Benzo(a)anthracene	410.000	ug/kg	C	UJ		1100.000	ug/kg	D	UJ
Benzo(a)pyrene	410.000	ug/kg	C	UJ		790.000	ug/kg	D	UJ
Benzo(b)fluoranthene	410.000	ug/kg	C	UJ		1100.000	ug/kg	D	UJ
Benzo(g,h,i)perylene	410.000	ug/kg	C	UJ		420.000	ug/kg	D	UJ
Benzo(k)fluoranthene	410.000	ug/kg	C	UJ		700.000	ug/kg	D	UJ
Benzoic acid	2000.000	ug/kg	C	UJ		1800.000	ug/kg	D	UJ
Benzyl alcohol	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Butyl benzyl phthalate	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Carbazole	410.000	ug/kg	C	UJ		67.000	ug/kg	D	UJ
Chrysene	410.000	ug/kg	C	UJ		940.000	ug/kg	D	UJ
Di-n-butyl phthalate	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Di-n-octyl phthalate	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Dibenzo(a,h)anthracene	410.000	ug/kg	C	UJ		250.000	ug/kg	D	UJ
Dibenzofuran	410.000	ug/kg	C	UJ		38.000	ug/kg	D	UJ
Diethyl phthalate	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Dimethyl phthalate	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Fluoranthene	410.000	ug/kg	C	UJ		1700.000	ug/kg	D	UJ
Fluorene	410.000	ug/kg	C	UJ		83.000	ug/kg	D	UJ
Hexachlorobenzene	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Hexachlorobutadiene	410.000	ug/kg	C	R		370.000	ug/kg	D	UJ
Hexachlorocyclopentadiene	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Hexachloroethane	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Indeno(1,2,3-cd)pyrene	410.000	ug/kg	C	UJ		520.000	ug/kg	D	UJ
Isophorone	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
N-Nitroso-di-n-propylamine	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
N-Nitrosodiphenylamine	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Naphthalene	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Nitrobenzene	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ
Pentachlorophenol	1000.000	ug/kg	C	UJ		900.000	ug/kg	D	UJ
Phenanthrene	410.000	ug/kg	C	UJ		970.000	ug/kg	D	UJ
Phenol	410.000	ug/kg	C	UJ		370.000	ug/kg	D	UJ

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1984	1985	1985			
SAMPLE NUMBER	111468	111441	111448			
SAMPLING DATE	12-5-15 05/01/93	2-4 04/26/93	15-17 04/27/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	410.000	ug/kg C U	1500.000	ug/kg D J	380.000	ug/kg C UJ
bis(2-Chloroethoxy)methane	410.000	ug/kg C UJ	370.000	ug/kg D UJ	380.000	ug/kg C UJ
bis(2-Chloroethyl)ether	410.000	ug/kg C UJ	370.000	ug/kg D UJ	380.000	ug/kg C UJ
bis(2-Chloroisopropyl) ether	410.000	ug/kg C UJ	370.000	ug/kg D UJ	380.000	ug/kg C UJ
bis(2-Ethylhexyl) phthalate	1000.000	ug/kg C -	2500.000	ug/kg D J	1700.000	ug/kg C J
p-Chloroaniline	410.000	ug/kg C U	370.000	ug/kg D UJ	380.000	ug/kg C UJ
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.200	ug/kg C U	5.000	ug/kg D J	3.800	ug/kg C U
4,4'-DDE	4.200	ug/kg C U	3.700	ug/kg D U	3.800	ug/kg C U
4,4'-DDT	4.200	ug/kg C UU	3.700	ug/kg D UU	3.800	ug/kg C UU
Aldrin	2.100	ug/kg C U	1.900	ug/kg D U	2.000	ug/kg C U
Aroclor-1016	42.000	ug/kg C UU	37.000	ug/kg D UU	38.000	ug/kg C UU
Aroclor-1221	85.000	ug/kg C UU	76.000	ug/kg D UU	77.000	ug/kg C UU
Aroclor-1232	42.000	ug/kg C UU	37.000	ug/kg D UU	38.000	ug/kg C UU
Aroclor-1242	42.000	ug/kg C UU	37.000	ug/kg D UU	38.000	ug/kg C UU
Aroclor-1248	42.000	ug/kg C UU	37.000	ug/kg D UU	38.000	ug/kg C UU
Aroclor-1254	42.000	ug/kg C UU	37.000	ug/kg D UU	38.000	ug/kg C UU
Aroclor-1260	42.000	ug/kg C UU	77.000	ug/kg D UU	38.000	ug/kg C UU
Dieldrin	4.200	ug/kg C UU	3.700	ug/kg D UU	3.800	ug/kg C UU
Endosulfan II	4.200	ug/kg C UU	3.700	ug/kg D UU	3.800	ug/kg C UU
Endosulfan sulfate	4.200	ug/kg C UU	6.200	ug/kg D -	3.800	ug/kg C UU
Endosulfan-I	2.100	ug/kg C UU	1.900	ug/kg D UU	2.000	ug/kg C UU
Endrin	4.200	ug/kg C UU	3.700	ug/kg D UU	3.800	ug/kg C UU
Endrin aldehyde	4.200	ug/kg C UU	3.700	ug/kg D UU	3.800	ug/kg C UU
Endrin ketone	4.200	ug/kg C UU	3.700	ug/kg D UU	3.800	ug/kg C UU
Heptachlor	2.100	ug/kg C UU	1.900	ug/kg D UU	2.000	ug/kg C UU
Heptachlor epoxide	2.100	ug/kg C UU	1.900	ug/kg D UU	2.000	ug/kg C UU
Methoxychlor	21.000	ug/kg C UU	19.000	ug/kg D UU	20.000	ug/kg C UU
Toxaphene	210.000	ug/kg C UU	190.000	ug/kg D UU	200.000	ug/kg C UU
alpha-BHC	2.100	ug/kg C UU	1.900	ug/kg D UU	2.000	ug/kg C UU
alpha-Chlordane	2.100	ug/kg C UU	1.900	ug/kg D UU	2.000	ug/kg C UU
beta-BHC	2.100	ug/kg C UU	1.900	ug/kg D UU	2.000	ug/kg C UU
delta-BHC	2.100	ug/kg C UU	1.900	ug/kg D UU	2.000	ug/kg C UU
gamma-BHC (Lindane)	2.100	ug/kg C UU	1.900	ug/kg D UU	2.000	ug/kg C UU
gamma-Chlordane	2.100	ug/kg C U	1.900	ug/kg D UU	2.000	ug/kg C UU

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1986	1986	1987
SAMPLE NUMBER	111452	111458	115357
SAMPLING DATE	2.5-5 04/28/93	12.5-15 04/30/93	5-7.5 05/13/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	9490.000	mg/kg C -	9550.000
Antimony	0.220	mg/kg C R	0.560
Arsenic	7.400	mg/kg C J	5.700
Barium	79.600	mg/kg C -	79.000
Beryllium	1.600	mg/kg C -	1.400
Cadmium	0.800	mg/kg C -	1.400
Calcium	112000.000	mg/kg C -	65100.000
Chromium	18.000	mg/kg C -	14.700
Cobalt	8.000	mg/kg C -	6.000
Copper	17.500	mg/kg C -	19.400
Cyanide	0.110	mg/kg C -	0.120
Iron	16600.000	mg/kg C -	16600.000
Lead	14.000	mg/kg C -	15.600
Magnesium	18500.000	mg/kg C -	25800.000
Manganese	600.000	mg/kg C -	517.000
Mercury	0.110	mg/kg C -	0.110
Molybdenum	1.100	mg/kg C -	1.300
Nickel	15.600	mg/kg C -	18.200
Potassium	1220.000	mg/kg C -	1070.000
Selenium	0.220	mg/kg C J	0.240
Silicon	930.000	mg/kg C -	853.000
Silver	0.450	mg/kg C -	0.490
Sodium	216.000	mg/kg C -	178.000
Thallium	0.220	mg/kg C -	0.240
Vanadium	24.500	mg/kg C -	26.700
Zinc	46.400	mg/kg C -	48.700
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	11.000	ug/kg C JJ	12.000
1,1,2,2-Tetrachloroethane	11.000	ug/kg C JJ	12.000
1,1,2-Trichloroethane	11.000	ug/kg C JJ	12.000
1,1-Dichloroethane	11.000	ug/kg C JJ	12.000
1,1-Dichloroethene	11.000	ug/kg C JJ	12.000
1,2-Dichloroethane	11.000	ug/kg C JJ	12.000
1,2-Dichloroethene	11.000	ug/kg C JJ	12.000
1,2-Dichloropropane	11.000	ug/kg C JJ	12.000
2-Butanone	11.000	ug/kg C JJ	12.000
2-Hexanone	11.000	ug/kg C JJ	12.000
4-Methyl-2-pentanone	11.000	ug/kg C JJ	12.000
Acetone	11.000	ug/kg C JJ	9.000
Benzene	11.000	ug/kg C JJ	12.000

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1986	1986	1987			
SAMPLE NUMBER	111452	111458	115357			
SAMPLING DATE	2.5-5 04/28/93	12.5-15 04/30/93	5-7.5 05/13/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Bromoform	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Carbon Tetrachloride	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Chlorobenzene	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Chloroform	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Dibromochloromethane	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Ethylbenzene	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Methylene chloride	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Styrene	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethene	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Toluene	1.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Trichloroethene	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl chloride	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
cis-1,3-Dichloropropene	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	11.000	ug/kg C UJ	12.000	ug/kg C U	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	370.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
1,2-Dichlorobenzene	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
1,3-Dichlorobenzene	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
1,4-Dichlorobenzene	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2,4,5-Trichlorophenol	890.000	ug/kg C UJ	990.000	ug/kg C U	970.000	ug/kg C U
2,4,6-Trichlorophenol	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2,4-Dichlorophenol	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2,4-Dimethylphenol	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2,4-Dinitrophenol	890.000	ug/kg C UJ	990.000	ug/kg C U	470.000	ug/kg C U
2,4-Dinitrotoluene	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2,6-Dinitrotoluene	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2-Chloronaphthalene	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2-Chlorophenol	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2-Methylnaphthalene	370.000	ug/kg C UJ	410.000	ug/kg C U	97.000	ug/kg C U
2-Methylphenol	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
2-Nitroaniline	890.000	ug/kg C UJ	990.000	ug/kg C U	970.000	ug/kg C U
2-Nitrophenol	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
3,3'-Dichlorobenzidine	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
3-Nitroaniline	890.000	ug/kg C UJ	990.000	ug/kg C U	970.000	ug/kg C U

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1986	1986	1987			
SAMPLE NUMBER	111452	111458	115357			
SAMPLING DATE	2-5-5	12-5-15	5-7-5			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4,6-Dinitro-2-methylphenol	890.000	ug/kg C UJ	990.000	ug/kg C U	970.000	ug/kg C U
4-Bromophenyl phenyl ether	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
4-Chloro-3-methylphenol	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
4-Chlorophenylphenyl ether	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
4-Methylphenol	370.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
4-Nitroaniline	890.000	ug/kg C UJ	990.000	ug/kg C R	970.000	ug/kg C U
4-Nitrophenol	890.000	ug/kg C UJ	990.000	ug/kg C U	970.000	ug/kg C U
Acenaphthene	83.000	ug/kg C J	410.000	ug/kg C U	250.000	ug/kg C U
Acenaphthylene	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Anthracene	140.000	ug/kg C J	410.000	ug/kg C U	450.000	ug/kg C -
Benzo(a)anthracene	490.000	ug/kg C J	410.000	ug/kg C U	730.000	ug/kg C -
Benzo(a)pyrene	320.000	ug/kg C J	410.000	ug/kg C U	700.000	ug/kg C -
Benzo(b)fluoranthene	480.000	ug/kg C J	410.000	ug/kg C U	910.000	ug/kg C -
Benzo(g,h,i)perylene	90.000	ug/kg C J	410.000	ug/kg C UJ	170.000	ug/kg C J
Benzo(k)fluoranthene	370.000	ug/kg C UJ	410.000	ug/kg C UJ	320.000	ug/kg C J
Benzoic acid	1800.000	ug/kg C UJ	2000.000	ug/kg C U	1900.000	ug/kg C U
Benzyl alcohol	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Butyl benzyl phthalate	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Carbazole	68.000	ug/kg C J	410.000	ug/kg C U	240.000	ug/kg C J
Chrysene	550.000	ug/kg C J	410.000	ug/kg C U	740.000	ug/kg C -
Di-n-butyl phthalate	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Di-n-octyl phthalate	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Dibenzo(a,h)anthracene	120.000	ug/kg C J	410.000	ug/kg C U	110.000	ug/kg C J
Dibenzofuran	39.000	ug/kg C J	410.000	ug/kg C U	160.000	ug/kg C J
Diethyl phthalate	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Dimethyl phthalate	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Fluoranthene	1300.000	ug/kg C J	410.000	ug/kg C U	1900.000	ug/kg C -
Fluorene	80.000	ug/kg C J	410.000	ug/kg C U	280.000	ug/kg C J
Hexachlorobenzene	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Hexachlorobutadiene	370.000	ug/kg C UJ	410.000	ug/kg C R	400.000	ug/kg C U
Hexachlorocyclopentadiene	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Hexachloroethane	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	230.000	ug/kg C J	410.000	ug/kg C U	440.000	ug/kg C -
Isophorone	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
N-Nitroso-di-n-propylamine	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
N-Nitrosodiphenylamine	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Naphthalene	370.000	ug/kg C UJ	410.000	ug/kg C U	120.000	ug/kg C J
Nitrobenzene	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Pentachlorophenol	890.000	ug/kg C UJ	990.000	ug/kg C U	970.000	ug/kg C U
Phenanthrene	1100.000	ug/kg C J	410.000	ug/kg C U	1700.000	ug/kg C -
Phenol	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
Pyrene	1100.000	ug/kg C J	410.000	ug/kg C U	1300.000	ug/kg C -

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1986	1986	1987			
SAMPLE NUMBER	111452	111458	115357			
SAMPLING DATE	2.5-5 04/28/93	12.5-15 04/30/93	5-7.5 05/13/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
bis(2-Chloroethoxy)methane	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
bis(2-Chloroethyl)ether	370.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
bis(2-Chloroisopropyl) ether	370.000	ug/kg C UJ	410.000	ug/kg C UJ	400.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	370.000	ug/kg C UJ	950.000	ug/kg C U	710.000	ug/kg C U
p-Chloroaniline	370.000	ug/kg C UJ	410.000	ug/kg C U	400.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	3.700	ug/kg C U	4.100	ug/kg C U	4.000	ug/kg C U
4,4'-DDE	3.700	ug/kg C U	4.100	ug/kg C U	4.000	ug/kg C U
4,4'-DDT	3.700	ug/kg C U	4.100	ug/kg C U	4.000	ug/kg C U
Aldrin	1.900	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
Aroclor-1016	37.000	ug/kg C U	41.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1221	75.000	ug/kg C U	83.000	ug/kg C U	81.000	ug/kg C U
Aroclor-1232	37.000	ug/kg C U	41.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1242	37.000	ug/kg C U	41.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1248	37.000	ug/kg C U	41.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1254	37.000	ug/kg C U	41.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1260	70.000	ug/kg C U	41.000	ug/kg C U	40.000	ug/kg C U
Dieldrin	3.700	ug/kg C U	4.100	ug/kg C U	4.000	ug/kg C U
Endosulfan II	3.700	ug/kg C U	4.100	ug/kg C U	4.000	ug/kg C U
Endosulfan sulfate	3.700	ug/kg C U	4.100	ug/kg C U	10.000	ug/kg C U
Endosulfan-I	1.900	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
Endrin	3.700	ug/kg C U	4.100	ug/kg C U	4.000	ug/kg C U
Endrin aldehyde	3.700	ug/kg C U	4.100	ug/kg C U	4.000	ug/kg C U
Endrin ketone	3.700	ug/kg C U	4.100	ug/kg C U	7.100	ug/kg C U
Heptachlor	1.900	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
Heptachlor epoxide	1.900	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
Methoxychlor	19.000	ug/kg C U	21.000	ug/kg C U	21.000	ug/kg C U
Toxaphene	190.000	ug/kg C U	210.000	ug/kg C U	210.000	ug/kg C U
alpha-BHC	1.900	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
alpha-Chlordane	1.900	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
beta-BHC	1.900	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
delta-BHC	1.900	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
gamma-BHC (Lindane)	1.900	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U
gamma-Chlordane	1.900	ug/kg C U	2.100	ug/kg C U	2.100	ug/kg C U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1987		1988		1988	
SAMPLE NUMBER	115359		115350		115351	
SAMPLING DATE	12.5-15		2.5-5		17.5-20	
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS
Inorganics						
Aluminum	6340.000	mg/kg	C	-	14500.000	mg/kg
Antimony	0.860	mg/kg	C	UJ	1.400	mg/kg
Arsenic	4.900	mg/kg	C	-	6.100	mg/kg
Barium	47.500	mg/kg	C	J	122.000	mg/kg
Beryllium	0.860	mg/kg	C	-	1.500	mg/kg
Cadmium	0.710	mg/kg	C	-	1.100	mg/kg
Calcium	101000.000	mg/kg	C	-	41300.000	mg/kg
Chromium	9.500	mg/kg	C	-	18.500	mg/kg
Cobalt	5.200	mg/kg	C	-	11.000	mg/kg
Copper	15.500	mg/kg	C	R	22.700	mg/kg
Cyanide	0.110	mg/kg	C	R	0.120	mg/kg
Iron	15300.000	mg/kg	C	J	22800.000	mg/kg
Lead	6.300	mg/kg	C	J	14.700	mg/kg
Magnesium	33900.000	mg/kg	C	-	17600.000	mg/kg
Manganese	296.000	mg/kg	C	J	513.000	mg/kg
Mercury	0.100	mg/kg	C	-	0.120	mg/kg
Molybdenum	2.900	mg/kg	C	-	1.300	mg/kg
Nickel	14.300	mg/kg	C	-	20.300	mg/kg
Potassium	1510.000	mg/kg	C	J	1420.000	mg/kg
Selenium	0.300	mg/kg	C	UJ	0.250	mg/kg
Silicon	972.000	mg/kg	C	UJ	974.000	mg/kg
Silver	0.430	mg/kg	C	-	0.490	mg/kg
Sodium	173.000	mg/kg	C	J	206.000	mg/kg
Thallium	0.240	mg/kg	C	-	0.320	mg/kg
Vanadium	19.500	mg/kg	C	-	31.100	mg/kg
Zinc	41.700	mg/kg	C	-	62.500	mg/kg
Volatile Organics						
1,1,1-Trichloroethane	11.000	ug/kg	C	U	14.000	ug/kg
1,1,2,2-Tetrachloroethane	11.000	ug/kg	C	U	14.000	ug/kg
1,1,2-Trichloroethane	11.000	ug/kg	C	U	14.000	ug/kg
1,1-Dichloroethane	11.000	ug/kg	C	U	14.000	ug/kg
1,1-Dichloroethene	11.000	ug/kg	C	U	14.000	ug/kg
1,2-Dichloroethane	11.000	ug/kg	C	U	14.000	ug/kg
1,2-Dichloroethene	11.000	ug/kg	C	U	14.000	ug/kg
1,2-Dichloropropane	11.000	ug/kg	C	U	2.000	ug/kg
2-Butanone	11.000	ug/kg	C	U	14.000	ug/kg
2-Hexanone	11.000	ug/kg	C	UJ	14.000	ug/kg
4-Methyl-2-pentanone	11.000	ug/kg	C	UJ	3.000	ug/kg
Acetone	30.000	ug/kg	C	R	78.000	ug/kg
Benzene	11.000	ug/kg	C	U	3.000	ug/kg

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12/17/93

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1987	1988	1988			
SAMPLE NUMBER	115359	115350	115351			
SAMPLING DATE	12.5-15 05/13/93	2.5-5 05/12/93	17.5-20 05/12/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Bromoform	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Bromomethane	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Carbon Tetrachloride	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Carbon disulfide	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Chlorobenzene	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Chloroethane	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Chloroform	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Chloromethane	11.000	ug/kg C UJ	14.000	ug/kg D U	11.000	ug/kg C U
Dibromochloromethane	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Ethylbenzene	11.000	ug/kg C U	76.000	ug/kg D -	11.000	ug/kg C U
Methylene chloride	11.000	ug/kg C UJ	14.000	ug/kg D UJ	11.000	ug/kg C U
Styrene	11.000	ug/kg C U	14.000	ug/kg D UJ	11.000	ug/kg C U
Tetrachloroethene	11.000	ug/kg C U	14.000	ug/kg D UJ	11.000	ug/kg C U
Toluene	10.000	ug/kg C U	10.000	ug/kg D U	11.000	ug/kg C U
Trichloroethene	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Vinyl chloride	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
Xylenes, Total	11.000	ug/kg C U	260.000	ug/kg D -	1.000	ug/kg C U
cis-1,3-Dichloropropene	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
trans-1,3-Dichloropropene	11.000	ug/kg C U	14.000	ug/kg D U	11.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
1,2-Dichlorobenzene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
1,3-Dichlorobenzene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
1,4-Dichlorobenzene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
2,4,5-Trichlorophenol	910.000	ug/kg C U	1100.000	ug/kg D U	890.000	ug/kg C U
2,4,6-Trichlorophenol	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
2,4-Dichlorophenol	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
2,4-Dimethylphenol	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
2,4-Dinitrophenol	910.000	ug/kg C U	1100.000	ug/kg D U	890.000	ug/kg C U
2,4-Dinitrotoluene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
2,6-Dinitrotoluene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
2-Chloronaphthalene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
2-Chlorophenol	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
2-Methylnaphthalene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
2-Methylphenol	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
2-Nitroaniline	910.000	ug/kg C U	1100.000	ug/kg D U	890.000	ug/kg C U
2-Nitrophenol	370.000	ug/kg C UJ	440.000	ug/kg D UJ	370.000	ug/kg C U
3,3'-Dichlorobenzidine	370.000	ug/kg C UJ	440.000	ug/kg D UJ	370.000	ug/kg C U
3-Nitroaniline	910.000	ug/kg C U	1100.000	ug/kg D U	890.000	ug/kg C U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1987	1988	1988			
SAMPLE NUMBER	115359	115350	115351			
SAMPLING DATE	12.5-15 05/13/93	2.5-5 05/12/93	17.5-20 05/12/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
4,6-Dinitro-2-methylphenol	910.000	ug/kg C U	1100.000	ug/kg D U	890.000	ug/kg C U
4-Bromophenyl phenyl ether	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
4-Chloro-3-methylphenol	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
4-Chlorophenylphenyl ether	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
4-Methylphenol	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
4-Nitroaniline	910.000	ug/kg C U	1100.000	ug/kg D U	890.000	ug/kg C U
4-Nitrophenol	910.000	ug/kg C U	1100.000	ug/kg D U	890.000	ug/kg C U
Acenaphthene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Acenaphthylene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Anthracene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Benzo(a)anthracene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Benzo(a)pyrene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Benzo(b)fluoranthene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Benzo(g,h,i)perylene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Benzo(k)fluoranthene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Benzoic acid	1800.000	ug/kg C U	2100.000	ug/kg D U	1800.000	ug/kg C U
Benzyl alcohol	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Butyl benzyl phthalate	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Carbazole	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Chrysene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Di-n-butyl phthalate	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Di-n-octyl phthalate	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Dibenz(a,h)anthracene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Dibenzofuran	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Diethyl phthalate	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Dimethyl phthalate	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Fluoranthene	370.000	ug/kg C U	160.000	ug/kg D U	370.000	ug/kg C U
Fluorene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Hexachlorobenzene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Hexachlorobutadiene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Hexachlorocyclopentadiene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Hexachloroethane	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Isophorone	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
N-Nitroso-di-n-propylamine	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
N-Nitrosodiphenylamine	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Naphthalene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Nitrobenzene	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Pentachlorophenol	910.000	ug/kg C U	1100.000	ug/kg D U	890.000	ug/kg C U
Phenanthrene	370.000	ug/kg C U	82.000	ug/kg D U	370.000	ug/kg C U
Phenol	370.000	ug/kg C U	440.000	ug/kg D U	370.000	ug/kg C U
Pyrene	370.000	ug/kg C U	100.000	ug/kg D U	370.000	ug/kg C U

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February 18, 1994

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5173TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
SAMPLE NUMBER	1987				1988				1988			
	115359				115350				115351			
SAMPLING DATE	12.5-15				2.5-5				17.5-20			
	05/13/93				05/12/93				05/12/93			
CHEMICAL PARAMETERS												
<u>Semivolatile Organics</u>												
bis(2-Chloroethoxy)methane	370.000	ug/kg	C	U	440.000	ug/kg	D	U	370.000	ug/kg	C	U
bis(2-Chloroethyl)ether	370.000	ug/kg	C	U	440.000	ug/kg	D	U	370.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	370.000	ug/kg	C	U	440.000	ug/kg	D	U	370.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	460.000	ug/kg	C	U	440.000	ug/kg	D	U	410.000	ug/kg	C	U
p-Chloroaniline	370.000	ug/kg	C	U	440.000	ug/kg	D	U	370.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	3.700	ug/kg	C	U	4.400	ug/kg	D	U	3.700	ug/kg	C	U
4,4'-DDE	3.700	ug/kg	C	U	4.400	ug/kg	D	U	3.700	ug/kg	C	U
4,4'-DDT	3.700	ug/kg	C	U	4.400	ug/kg	D	U	3.700	ug/kg	C	U
Aldrin	1.900	ug/kg	C	U	2.300	ug/kg	D	U	1.900	ug/kg	C	U
Aroclor-1016	37.000	ug/kg	C	U	44.000	ug/kg	D	U	37.000	ug/kg	C	U
Aroclor-1221	76.000	ug/kg	C	U	90.000	ug/kg	D	U	75.000	ug/kg	C	U
Aroclor-1232	37.000	ug/kg	C	U	44.000	ug/kg	D	U	37.000	ug/kg	C	U
Aroclor-1242	37.000	ug/kg	C	U	44.000	ug/kg	D	U	37.000	ug/kg	C	U
Aroclor-1248	37.000	ug/kg	C	U	44.000	ug/kg	D	U	37.000	ug/kg	C	U
Aroclor-1254	37.000	ug/kg	C	U	44.000	ug/kg	D	U	37.000	ug/kg	C	U
Aroclor-1260	37.000	ug/kg	C	U	44.000	ug/kg	D	U	37.000	ug/kg	C	U
Dieledrin	3.700	ug/kg	C	U	4.400	ug/kg	D	U	3.700	ug/kg	C	U
Endosulfan II	3.700	ug/kg	C	U	4.400	ug/kg	D	U	3.700	ug/kg	C	U
Endosulfan sulfate	3.700	ug/kg	C	U	4.400	ug/kg	D	U	3.700	ug/kg	C	U
Endosulfan-I	1.900	ug/kg	C	U	2.300	ug/kg	D	U	1.900	ug/kg	C	U
Endrin	3.700	ug/kg	C	U	4.400	ug/kg	D	U	3.700	ug/kg	C	U
Endrin aldehyde	3.700	ug/kg	C	U	4.400	ug/kg	D	U	3.700	ug/kg	C	U
Endrin ketone	3.700	ug/kg	C	U	4.400	ug/kg	D	U	3.700	ug/kg	C	U
Heptachlor	1.900	ug/kg	C	U	2.300	ug/kg	D	U	1.900	ug/kg	C	U
Heptachlor epoxide	1.900	ug/kg	C	U	2.300	ug/kg	D	U	1.900	ug/kg	C	U
Methoxychlor	19.000	ug/kg	C	U	23.000	ug/kg	D	U	19.000	ug/kg	C	U
Toxaphene	190.000	ug/kg	C	U	230.000	ug/kg	D	U	190.000	ug/kg	C	U
alpha-BHC	1.900	ug/kg	C	U	2.300	ug/kg	D	U	1.900	ug/kg	C	U
alpha-Chlordane	1.900	ug/kg	C	U	2.300	ug/kg	D	U	1.900	ug/kg	C	U
beta-BHC	1.900	ug/kg	C	U	2.300	ug/kg	D	U	1.900	ug/kg	C	U
delta-BHC	1.900	ug/kg	C	U	2.300	ug/kg	D	U	1.900	ug/kg	C	U
gamma-BHC (Lindane)	1.900	ug/kg	C	U	2.300	ug/kg	D	U	1.900	ug/kg	C	U
gamma-Chlordane	1.900	ug/kg	C	U	2.300	ug/kg	D	U	1.900	ug/kg	C	U

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1989	1989	1990	
SAMPLE NUMBER	115362	115363	115329	
SAMPLING DATE	2.5-5 05/14/93	12.5-15 05/14/93	6-9 05/10/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Inorganics</u>				
Aluminum	11400.000	mg/kg C J	11100.000	
Antimony	0.850	mg/kg C UJ	1.100	mg/kg C UJ
Arsenic	5.400	mg/kg C -	3.900	mg/kg C -
Barium	75.800	mg/kg C -	108.000	mg/kg C -
Beryllium	0.400	mg/kg C -	0.500	mg/kg C -
Cadmium	0.850	mg/kg C C C	1.100	mg/kg C C J
Calcium	55000.000	mg/kg C C C	104000.000	mg/kg C C J
Chromium	12.000	mg/kg C -	12.000	mg/kg C J
Cobalt	6.400	mg/kg C -	6.700	mg/kg C -
Copper	21.900	mg/kg C C C	19.700	mg/kg C J
Cyanide	0.120	mg/kg C C C	0.120	mg/kg C U
Iron	17900.000	mg/kg C C C	21800.000	mg/kg C C J
Lead	16.900	mg/kg C C C	7.500	mg/kg C C J
Magnesium	15600.000	mg/kg C C C	24600.000	mg/kg C C J
Manganese	336.000	mg/kg C C U	457.000	mg/kg C C U
Mercury	0.110	mg/kg C U	0.100	mg/kg C U
Molybdenum	5.000	mg/kg C -	8.200	mg/kg C -
Nickel	16.700	mg/kg C J	20.900	mg/kg C J
Potassium	1190.000	mg/kg C C -	2470.000	mg/kg C C -
Selenium	0.450	mg/kg C C U	0.460	mg/kg C C U
Silicon	392.000	mg/kg C C U	1010.000	mg/kg C C J
Silver	5.000	mg/kg C -	5.900	mg/kg C -
Sodium	142.000	mg/kg C -	197.000	mg/kg C -
Thallium	0.450	mg/kg C C U	0.460	mg/kg C C U
Vanadium	26.000	mg/kg C -	24.700	mg/kg C C -
Zinc	50.800	mg/kg C J	56.800	mg/kg C J
<u>Volatile Organics</u>				
1,1,1-Trichloroethane	12.000	ug/kg C U	12.000	ug/kg C U
1,1,2,2-Tetrachloroethane	12.000	ug/kg C C U	12.000	ug/kg C R
1,1,2-Trichloroethane	12.000	ug/kg C C U	12.000	ug/kg C U
1,1-Dichloroethane	12.000	ug/kg C C U	12.000	ug/kg C UJ
1,1-Dichloroethene	12.000	ug/kg C C U	12.000	ug/kg C C U
1,2-Dichloroethane	12.000	ug/kg C C U	12.000	ug/kg C C U
1,2-Dichloroethene	12.000	ug/kg C C U	12.000	ug/kg C C U
1,2-Dichloropropane	12.000	ug/kg C C U	12.000	ug/kg C C U
2-Butanone	12.000	ug/kg C C U	12.000	ug/kg C UJ
2-Hexanone	12.000	ug/kg C C U	12.000	ug/kg C C U
4-Methyl-2-pentanone	12.000	ug/kg C C U	12.000	ug/kg C C U
Acetone	12.000	ug/kg C C U	12.000	ug/kg C C R
Benzene	12.000	ug/kg C U	12.000	ug/kg C U

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5173TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1989	1989	1990			
SAMPLE NUMBER	115362	115363	115329			
SAMPLING DATE	2.5-5 05/14/93	12.5-15 05/14/93	6-9 05/10/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromoform	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Carbon Tetrachloride	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloroform	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Dibromochloromethane	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Methylene chloride	13.000	ug/kg C U	14.000	ug/kg C U	12.000	ug/kg C U
Styrene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Toluene	12.000	ug/kg C U	3.000	ug/kg C U	12.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Vinyl Acetate	12.000	ug/kg C U	12.000	ug/kg C U	NA	ug/kg C U
Vinyl chloride	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	12.000	ug/kg C U	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
1,2-Dichlorobenzene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
1,3-Dichlorobenzene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
1,4-Dichlorobenzene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2,4,5-Trichlorophenol	960.000	ug/kg C U	940.000	ug/kg C U	960.000	ug/kg C U
2,4,6-Trichlorophenol	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2,4-Dichlorophenol	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2,4-Dimethylphenol	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2,4-Dinitrophenol	960.000	ug/kg C U	940.000	ug/kg C U	960.000	ug/kg C U
2,4-Dinitrotoluene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2,6-Dinitrotoluene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2-Chloronaphthalene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2-Chlorophenol	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2-Methylnaphthalene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2-Methylphenol	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
2-Nitroaniline	960.000	ug/kg C U	940.000	ug/kg C U	960.000	ug/kg C U
2-Nitrophenol	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U
3,3'-Dichlorobenzidine	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U

C-6104

0206

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1989	1989	1990				
SAMPLE NUMBER	115362	115363	115329				
SAMPLING DATE	2.5-5 05/14/93	12.5-15 05/14/93	6-9 05/10/93				
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	
<u>Semivolatile Organics</u>							
3-Nitroaniline	960.000	ug/kg C UJ	940.000	ug/kg C UJ	960.000	ug/kg C U	
4,6-Dinitro-2-methylphenol	960.000	ug/kg C U	940.000	ug/kg C U	960.000	ug/kg C U	
4-Bromophenyl phenyl ether	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
4-Chloro-3-methylphenol	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
4-Chlorophenylphenyl ether	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
4-Methylphenol	140.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
4-Nitroaniline	960.000	ug/kg C U	940.000	ug/kg C U	960.000	ug/kg C U	
4-Nitrophenol	960.000	ug/kg C U	940.000	ug/kg C U	960.000	ug/kg C U	
Acenaphthene	90.000	ug/kg C U	390.000	ug/kg C U	260.000	ug/kg C U	
Acenaphthylene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Anthracene	400.000	ug/kg C U	390.000	ug/kg C U	260.000	ug/kg C U	
Benzo(a)anthracene	170.000	ug/kg C U	390.000	ug/kg C U	460.000	ug/kg C U	
Benzo(a)pyrene	110.000	ug/kg C U	390.000	ug/kg C U	420.000	ug/kg C U	
Benzo(b)fluoranthene	220.000	ug/kg C U	390.000	ug/kg C U	530.000	ug/kg C U	
Benzo(g,h,i)perylene	64.000	ug/kg C U	390.000	ug/kg C U	170.000	ug/kg C U	
Benzo(k)fluoranthene	400.000	ug/kg C U	390.000	ug/kg C U	210.000	ug/kg C U	
Benzoic acid	NA		NA		1900.000	ug/kg C U	
Benzyl alcohol	NA		NA		400.000	ug/kg C U	
Butyl benzyl phthalate	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Carbazole	400.000	ug/kg C U	390.000	ug/kg C U	180.000	ug/kg C U	
Chrysene	140.000	ug/kg C U	390.000	ug/kg C U	460.000	ug/kg C U	
Di-n-butyl phthalate	170.000	ug/kg C U	71.000	ug/kg C U	400.000	ug/kg C U	
Di-n-octyl phthalate	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Dibenzo(a,h)anthracene	400.000	ug/kg C U	390.000	ug/kg C U	68.000	ug/kg C U	
Dibenzofuran	400.000	ug/kg C U	390.000	ug/kg C U	170.000	ug/kg C U	
Diethyl phthalate	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Dimethyl phthalate	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Fluoranthene	340.000	ug/kg C U	390.000	ug/kg C U	1200.000	ug/kg C U	
Fluorene	400.000	ug/kg C U	390.000	ug/kg C U	210.000	ug/kg C U	
Hexachlorobenzene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Hexachlorobutadiene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Hexachlorocyclopentadiene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Hexachloroethane	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Indeno(1,2,3-cd)pyrene	67.000	ug/kg C U	390.000	ug/kg C U	280.000	ug/kg C U	
Isophorone	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
N-Nitroso-di-n-propylamine	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
N-Nitrosodiphenylamine	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Naphthalene	400.000	ug/kg C U	390.000	ug/kg C U	46.000	ug/kg C U	
Nitrobenzene	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	
Pentachlorophenol	960.000	ug/kg C U	940.000	ug/kg C U	960.000	ug/kg C U	
Phenanthrene	260.000	ug/kg C U	390.000	ug/kg C U	1200.000	ug/kg C U	
Phenol	400.000	ug/kg C U	390.000	ug/kg C U	400.000	ug/kg C U	

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1989	1989	1990
SAMPLE NUMBER	115362	115363	115329
SAMPLING DATE	2.5-5 05/14/93	12.5-15 05/14/93	6-9 05/10/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Pyrene	270.000	ug/kg C J	390.000
bis(2-Chloroethoxy)methane	400.000	ug/kg C U	400.000
bis(2-Chloroethyl)ether	400.000	ug/kg C U	400.000
bis(2-Chloroisopropyl) ether	400.000	ug/kg C U	400.000
bis(2-Ethylhexyl) phthalate	450.000	ug/kg C U	1100.000
p-Chloroaniline	400.000	ug/kg C UJ	400.000
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	3.900	ug/kg C UJ	3.800
4,4'-DDE	3.900	ug/kg C U	3.800
4,4'-DDT	3.900	ug/kg C U	3.800
Aldrin	2.000	ug/kg C U	2.000
Aroclor-1016	39.000	ug/kg C UJ	38.000
Aroclor-1221	80.000	ug/kg C UJ	78.000
Aroclor-1232	39.000	ug/kg C UJ	38.000
Aroclor-1242	39.000	ug/kg C UJ	38.000
Aroclor-1248	39.000	ug/kg C UJ	38.000
Aroclor-1254	39.000	ug/kg C UJ	38.000
Aroclor-1260	150.000	ug/kg C UJ	38.000
Dieldrin	3.900	ug/kg C U	3.800
Endosulfan II	3.900	ug/kg C U	3.800
Endosulfan sulfate	3.900	ug/kg C U	3.800
Endosulfan-I	2.000	ug/kg C U	2.000
Endrin	3.900	ug/kg C U	3.800
Endrin aldehyde	3.900	ug/kg C UJ	3.800
Endrin ketone	3.900	ug/kg C U	3.800
Heptachlor	2.000	ug/kg C U	2.000
Heptachlor epoxide	2.000	ug/kg C U	2.000
Methoxychlor	20.000	ug/kg C U	20.000
Toxaphene	200.000	ug/kg C U	200.000
alpha-BHC	2.000	ug/kg C U	2.000
alpha-Chlordane	2.000	ug/kg C U	2.000
beta-BHC	2.000	ug/kg C U	2.000
delta-BHC	2.000	ug/kg C U	2.000
gamma-BHC (Lindane)	2.000	ug/kg C U	2.000
gamma-Chlordane	2.000	ug/kg C U	2.000

C-6-106

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1990	1991	1991
SAMPLE NUMBER	115335	115319	115321
SAMPLING DATE	17.5-20 05/10/93	7.5-10 05/06/93	12-15 05/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Inorganics			
Aluminum	7370.000	mg/kg C	10500.000
Antimony	0.860	mg/kg C	0.450
Arsenic	4.400	mg/kg C	13.900
Barium	93.000	mg/kg C	81.900
Beryllium	1.000	mg/kg C	0.690
Cadmium	0.440	mg/kg C	0.940
Calcium	119000.000	mg/kg C	61000.000
Chromium	11.400	mg/kg C	13.900
Cobalt	6.800	mg/kg C	9.100
Copper	15.000	mg/kg C	25.800
Cyanide	0.110	mg/kg C	0.120
Iron	15600.000	mg/kg C	17300.000
Lead	8.600	mg/kg C	17.300
Magnesium	30000.000	mg/kg C	19000.000
Manganese	349.000	mg/kg C	622.000
Mercury	0.110	mg/kg C	0.120
Molybdenum	2.200	mg/kg C	1.300
Nickel	18.000	mg/kg C	17.700
Potassium	1750.000	mg/kg C	1360.000
Selenium	0.220	mg/kg C	0.240
Silicon	617.000	mg/kg C	815.000
Silver	0.440	mg/kg C	0.480
Sodium	189.000	mg/kg C	203.000
Thallium	0.260	mg/kg C	0.240
Vanadium	19.300	mg/kg C	24.700
Zinc	37.700	mg/kg C	56.600
Volatile Organics			
1,1,1-Trichloroethane	11.000	ug/kg C	12.000
1,1,2,2-Tetrachloroethane	11.000	ug/kg C	12.000
1,1,2-Trichloroethane	11.000	ug/kg C	12.000
1,1-Dichloroethane	11.000	ug/kg C	12.000
1,1-Dichloroethene	11.000	ug/kg C	12.000
1,2-Dichloroethane	11.000	ug/kg C	12.000
1,2-Dichloroethene	11.000	ug/kg C	12.000
1,2-Dichloropropane	11.000	ug/kg C	12.000
2-Butanone	11.000	ug/kg C	12.000
2-Hexanone	11.000	ug/kg C	12.000
4-Methyl-2-pentanone	11.000	ug/kg C	12.000
Acetone	32.000	ug/kg C	12.000
Benzene	11.000	ug/kg C	12.000

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1990	1991	1991			
SAMPLE NUMBER	115335	115319	115321			
SAMPLING DATE	17.5-20 05/10/93	7.5-10 05/06/93	12-15 05/06/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Bromoform	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Bromomethane	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Carbon Tetrachloride	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Carbon disulfide	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chlorobenzene	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chloroethane	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chloroform	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Chloromethane	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Dibromochloromethane	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Ethylbenzene	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Methylene chloride	13.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Styrene	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Tetrachloroethene	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Toluene	5.000	ug/kg C U	2.000	ug/kg C U	11.000	ug/kg C U
Trichloroethene	NA	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Vinyl Acetate	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Vinyl chloride	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
Xylenes, Total	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
cis-1,3-Dichloropropene	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
trans-1,3-Dichloropropene	11.000	ug/kg C U	12.000	ug/kg C U	11.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
1,2-Dichlorobenzene	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
1,3-Dichlorobenzene	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
1,4-Dichlorobenzene	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2,4,5-Trichlorophenol	890.000	ug/kg C U	980.000	ug/kg C U	910.000	ug/kg C U
2,4,6-Trichlorophenol	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2,4-Dichlorophenol	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2,4-Dimethylphenol	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2,4-Dinitrophenol	890.000	ug/kg C U	980.000	ug/kg C U	910.000	ug/kg C U
2,4-Dinitrotoluene	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2,6-Dinitrotoluene	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2-Chloronaphthalene	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2-Chlorophenol	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2-Methylnaphthalene	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2-Methylphenol	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
2-Nitroaniline	890.000	ug/kg C U	980.000	ug/kg C U	910.000	ug/kg C U
2-Nitrophenol	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
3,3'-Dichlorobenzidine	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1990	1991	1991			
SAMPLE NUMBER	115335	115319	115321			
SAMPLING DATE	17.5-20 05/10/93	7.5-10 05/06/93	12-15 05/06/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3-Nitroaniline	890.000	ug/kg C UJ	980.000	ug/kg C UJ	910.000	ug/kg C UJ
4,6-Dinitro-2-methylphenol	890.000	ug/kg C UJ	980.000	ug/kg C UJ	910.000	ug/kg C UJ
4-Bromophenyl phenyl ether	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
4-Chloro-3-methylphenol	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
4-Chlorophenylphenyl ether	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
4-Methylphenol	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
4-Nitroaniline	890.000	ug/kg C UJ	980.000	ug/kg C UJ	910.000	ug/kg C UJ
4-Nitrophenol	890.000	ug/kg C UJ	980.000	ug/kg C UJ	910.000	ug/kg C UJ
Acenaphthene	370.000	ug/kg C UJ	180.000	ug/kg C UJ	370.000	ug/kg C UJ
Acenaphthylene	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Anthracene	370.000	ug/kg C UJ	300.000	ug/kg C UJ	370.000	ug/kg C UJ
Benzo(a)anthracene	370.000	ug/kg C UJ	560.000	ug/kg C UJ	370.000	ug/kg C UJ
Benzo(a)pyrene	370.000	ug/kg C UJ	470.000	ug/kg C UJ	370.000	ug/kg C UJ
Benzo(b)fluoranthene	370.000	ug/kg C UJ	540.000	ug/kg C UJ	370.000	ug/kg C UJ
Benzo(g,h,i)perylene	370.000	ug/kg C UJ	320.000	ug/kg C UJ	370.000	ug/kg C UJ
Benzo(k)fluoranthene	370.000	ug/kg C UJ	410.000	ug/kg C UJ	370.000	ug/kg C UJ
Benzoic acid	890.000	ug/kg C UJ	NA	NA	NA	NA
Benzyl alcohol	370.000	ug/kg C UJ	NA	NA	NA	NA
Butyl benzyl phthalate	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Carbazole	370.000	ug/kg C UJ	98.000	ug/kg C UJ	370.000	ug/kg C UJ
Chrysene	370.000	ug/kg C UJ	640.000	ug/kg C UJ	370.000	ug/kg C UJ
Di-n-butyl phthalate	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Di-n-octyl phthalate	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Dibenzo(a,h)anthracene	370.000	ug/kg C UJ	140.000	ug/kg C UJ	370.000	ug/kg C UJ
Dibenzofuran	370.000	ug/kg C UJ	130.000	ug/kg C UJ	370.000	ug/kg C UJ
Diethyl phthalate	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Dimethyl phthalate	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Fluoranthene	370.000	ug/kg C UJ	1800.000	ug/kg C UJ	370.000	ug/kg C UJ
Fluorene	370.000	ug/kg C UJ	190.000	ug/kg C UJ	370.000	ug/kg C UJ
Hexachlorobenzene	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Hexachlorobutadiene	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Hexachlorocyclopentadiene	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Hexachloroethane	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Indeno(1,2,3-cd)pyrene	370.000	ug/kg C UJ	320.000	ug/kg C UJ	370.000	ug/kg C UJ
Isophorone	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
N-Nitroso-di-n-propylamine	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
N-Nitrosodiphenylamine	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Naphthalene	370.000	ug/kg C UJ	84.000	ug/kg C UJ	370.000	ug/kg C UJ
Nitrobenzene	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ
Pentachlorophenol	890.000	ug/kg C UJ	980.000	ug/kg C UJ	910.000	ug/kg C UJ
Phenanthrene	370.000	ug/kg C UJ	1500.000	ug/kg C UJ	370.000	ug/kg C UJ
Phenol	370.000	ug/kg C UJ	400.000	ug/kg C UJ	370.000	ug/kg C UJ

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B 5173

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1990	1991	1991			
SAMPLE NUMBER	115335	115319	115321			
SAMPLING DATE	17.5-20 05/10/93	7.5-10 05/06/93	12-15 05/06/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	370.000	ug/kg C UJ	1300.000	ug/kg C -	370.000	ug/kg C U
bis(2-Chloroethoxy)methane	370.000	ug/kg C UJ	400.000	ug/kg C U	370.000	ug/kg C U
bis(2-Chloroethyl)ether	370.000	ug/kg C UJ	400.000	ug/kg C U	370.000	ug/kg C U
bis(2-Chloroisopropyl) ether	370.000	ug/kg C U	400.000	ug/kg C U	370.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	490.000	ug/kg C U	300.000	ug/kg C J	810.000	ug/kg C -
p-Chloroaniline	370.000	ug/kg C UJ	400.000	ug/kg C U	370.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	3.600	ug/kg C UJ	4.000	ug/kg C UJ	3.700	ug/kg C UJ
4,4'-DDE	3.600	ug/kg C UJ	4.000	ug/kg C UJ	3.700	ug/kg C UJ
4,4'-DDT	3.600	ug/kg C UJ	4.000	ug/kg C UJ	3.700	ug/kg C UJ
Aldrin	1.900	ug/kg C UJ	2.100	ug/kg C UJ	1.900	ug/kg C UJ
Aroclor-1016	36.000	ug/kg C UJ	40.000	ug/kg C UJ	37.000	ug/kg C UJ
Aroclor-1221	74.000	ug/kg C UJ	81.000	ug/kg C UJ	76.000	ug/kg C UJ
Aroclor-1232	36.000	ug/kg C UJ	40.000	ug/kg C UJ	37.000	ug/kg C UJ
Aroclor-1242	36.000	ug/kg C UJ	40.000	ug/kg C UJ	37.000	ug/kg C UJ
Aroclor-1248	36.000	ug/kg C UJ	40.000	ug/kg C UJ	37.000	ug/kg C UJ
Aroclor-1254	36.000	ug/kg C UJ	40.000	ug/kg C UJ	37.000	ug/kg C UJ
Aroclor-1260	36.000	ug/kg C UJ	40.000	ug/kg C UJ	37.000	ug/kg C UJ
Dieldrin	3.600	ug/kg C UJ	4.000	ug/kg C UJ	3.700	ug/kg C UJ
Endosulfan II	3.600	ug/kg C UJ	6.200	ug/kg C J	3.700	ug/kg C UJ
Endosulfan sulfate	3.600	ug/kg C UJ	4.000	ug/kg C UJ	3.700	ug/kg C UJ
Endosulfan-I	1.900	ug/kg C UJ	3.000	ug/kg C R	1.900	ug/kg C UJ
Endrin	3.600	ug/kg C UJ	4.000	ug/kg C UJ	3.700	ug/kg C UJ
Endrin aldehyde	3.600	ug/kg C UJ	4.000	ug/kg C UJ	3.700	ug/kg C UJ
Endrin ketone	3.600	ug/kg C UJ	4.000	ug/kg C UJ	3.700	ug/kg C UJ
Heptachlor	1.900	ug/kg C UJ	2.100	ug/kg C UJ	1.900	ug/kg C UJ
Heptachlor epoxide	1.900	ug/kg C UJ	2.100	ug/kg C UJ	1.900	ug/kg C UJ
Methoxychlor	19.000	ug/kg C UJ	21.000	ug/kg C UJ	19.000	ug/kg C UJ
Toxaphene	190.000	ug/kg C UJ	210.000	ug/kg C UJ	190.000	ug/kg C UJ
alpha-BHC	1.900	ug/kg C UJ	2.100	ug/kg C UJ	1.900	ug/kg C UJ
alpha-Chlordane	1.900	ug/kg C UJ	2.100	ug/kg C UJ	1.900	ug/kg C UJ
beta-BHC	1.900	ug/kg C UJ	2.100	ug/kg C UJ	1.900	ug/kg C UJ
delta-BHC	1.900	ug/kg C UJ	2.100	ug/kg C UJ	1.900	ug/kg C UJ
gamma-BHC (Lindane)	1.900	ug/kg C UJ	2.100	ug/kg C UJ	1.900	ug/kg C UJ
gamma-Chlordane	1.900	ug/kg C UJ	2.100	ug/kg C UJ	1.900	ug/kg C UJ

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1992	1992	1993			
SAMPLE NUMBER	115343	115346	115339			
SAMPLING DATE	7.5-10	17.5-20	2.5-5			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	14200.000	mg/kg C -	9420.000	mg/kg C -	8260.000	mg/kg C -
Antimony	1.300	mg/kg C UJ	0.540	mg/kg C UJ	0.630	mg/kg C UJ
Arsenic	8.900	mg/kg C -	5.200	mg/kg C -	8.000	mg/kg C J
Barium	123.000	mg/kg C -	108.000	mg/kg C -	81.800	mg/kg C J
Beryllium	1.500	mg/kg C -	1.400	mg/kg C -	0.720	mg/kg C -
Cadmium	0.930	mg/kg C -	1.300	mg/kg C -	1.100	mg/kg C -
Calcium	56100.000	mg/kg C -	98400.000	mg/kg C -	83000.000	mg/kg C -
Chromium	36.900	mg/kg C -	13.200	mg/kg C -	10.300	mg/kg C -
Cobalt	11.200	mg/kg C -	11.800	mg/kg C -	7.600	mg/kg C -
Copper	16.700	mg/kg C R	16.300	mg/kg C J	14.600	mg/kg C J
Cyanide	0.120	mg/kg C R	1.000	mg/kg C J	0.120	mg/kg C J
Iron	21400.000	mg/kg C -	19600.000	mg/kg C -	17200.000	mg/kg C -
Lead	13.800	mg/kg C -	8.200	mg/kg C -	12.300	mg/kg C -
Magnesium	18000.000	mg/kg C -	28000.000	mg/kg C -	20900.000	mg/kg C -
Manganese	515.000	mg/kg C -	532.000	mg/kg C -	735.000	mg/kg C C
Mercury	0.120	mg/kg C U	0.100	mg/kg C U	0.110	mg/kg C U
Molybdenum	0.880	mg/kg C -	1.800	mg/kg C -	1.500	mg/kg C U
Nickel	22.600	mg/kg C -	21.400	mg/kg C -	16.200	mg/kg C -
Potassium	2020.000	mg/kg C -	2200.000	mg/kg C -	1120.000	mg/kg C J
Selenium	0.240	mg/kg C UJ	0.230	mg/kg C UJ	0.230	mg/kg C UJ
Silicon	734.000	mg/kg C U	868.000	mg/kg C J	1060.000	mg/kg C U
Silver	0.490	mg/kg C U	0.450	mg/kg C U	0.450	mg/kg C U
Sodium	168.000	mg/kg C -	187.000	mg/kg C -	146.000	mg/kg C J
Thallium	0.240	mg/kg C U	0.230	mg/kg C U	0.230	mg/kg C U
Vanadium	31.500	mg/kg C -	21.900	mg/kg C -	19.700	mg/kg C J
Zinc	53.100	mg/kg C -	47.800	mg/kg C -	40.700	mg/kg C J
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	12.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg C UJ
1,1,2,2-Tetrachloroethane	12.000	ug/kg C UU	11.000	ug/kg C UU	12.000	ug/kg C UJ
1,1,2-Trichloroethane	12.000	ug/kg C UU	11.000	ug/kg C UU	12.000	ug/kg C UJ
1,1-Dichloroethane	12.000	ug/kg C UU	11.000	ug/kg C UU	12.000	ug/kg C UJ
1,1-Dichloroethene	12.000	ug/kg C UU	11.000	ug/kg C UU	12.000	ug/kg C UJ
1,2-Dichloroethane	12.000	ug/kg C UU	11.000	ug/kg C UU	12.000	ug/kg C UJ
1,2-Dichloroethene	12.000	ug/kg C UU	11.000	ug/kg C UU	12.000	ug/kg C UJ
1,2-Dichloropropane	12.000	ug/kg C UU	11.000	ug/kg C UU	12.000	ug/kg C UJ
2-Butanone	12.000	ug/kg C R	11.000	ug/kg C UJ	12.000	ug/kg C UJ
2-Hexanone	12.000	ug/kg C UJ	11.000	ug/kg C U	12.000	ug/kg C UJ
4-Methyl-2-pentanone	12.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg C UJ
Acetone	18.000	ug/kg C R	9.000	ug/kg C R	12.000	ug/kg C UJ
Benzene	12.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg C UJ

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1992	1992	1993			
SAMPLE NUMBER	115343	115346	115339			
SAMPLING DATE	7.5-10 05/11/93	17.5-20 05/11/93	2.5-5 05/11/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	12.000	ug/kg C U	11.000	ug/kg C U	12.000	ug/kg C U
Bromoform	12.000	ug/kg CCCC	11.000	ug/kg CCCC	12.000	ug/kg CCCC
Bromomethane	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Carbon Tetrachloride	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Carbon disulfide	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Chlorobenzene	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Chloroethane	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Chloroform	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Chloromethane	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Dibromochloromethane	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Ethylbenzene	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Methylene chloride	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Styrene	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Tetrachloroethene	1.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Toluene	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Trichloroethene	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Vinyl Acetate	NA		NA		12.000	ug/kg CCCCC
Vinyl chloride	12.000	ug/kg CCCCC	11.000	ug/kg CCCCC	12.000	ug/kg CCCCC
Xylenes, Total	12.000	ug/kg CCCC	11.000	ug/kg CCCC	12.000	ug/kg CCCC
cis-1,3-Dichloropropene	12.000	ug/kg CCCC	11.000	ug/kg CCCC	12.000	ug/kg CCCC
trans-1,3-Dichloropropene	12.000	ug/kg CCCC	11.000	ug/kg CCCC	12.000	ug/kg CCCC
Semivolatile Organics						
1,2,4-Trichlorobenzene	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
1,2-Dichlorobenzene	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
1,3-Dichlorobenzene	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
1,4-Dichlorobenzene	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
2,4,5-Trichlorophenol	990.000	ug/kg CCCCC	910.000	ug/kg CCCCC	950.000	ug/kg CCCCC
2,4,6-Trichlorophenol	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
2,4-Dichlorophenol	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
2,4-Dimethylphenol	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
2,4-Dinitrophenol	990.000	ug/kg CCCCC	910.000	ug/kg CCCCC	950.000	ug/kg CCCCC
2,4-Dinitrotoluene	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
2,6-Dinitrotoluene	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
2-Chloronaphthalene	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
2-Chlorophenol	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
2-Methylnaphthalene	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	160.000	ug/kg CCCCC
2-Methylphenol	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
2-Nitroaniline	990.000	ug/kg CCCCC	910.000	ug/kg CCCCC	950.000	ug/kg CCCCC
2-Nitrophenol	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC
3,3'-Dichlorobenzidine	410.000	ug/kg CCCCC	370.000	ug/kg CCCCC	390.000	ug/kg CCCCC

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1992	1992	1993			
SAMPLE NUMBER	115343	115346	115339			
SAMPLING DATE	7.5-10	17.5-20	2.5-5			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3-Nitroaniline	990.000	ug/kg C UJ	910.000	ug/kg C UJ	950.000	ug/kg C U
4,6-Dinitro-2-methylphenol	990.000	ug/kg C UJ	910.000	ug/kg C UJ	950.000	ug/kg C UU
4-Bromophenyl phenyl ether	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
4-Chloro-3-methylphenol	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
4-Chlorophenylphenyl ether	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
4-Methylphenol	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
4-Nitroaniline	990.000	ug/kg C UU	910.000	ug/kg C UU	950.000	ug/kg C UUU
4-Nitropheno1	990.000	ug/kg C UU	910.000	ug/kg C UU	950.000	ug/kg C UUU
Acenaphthene	47.000	ug/kg C UU	370.000	ug/kg C UU	290.000	ug/kg C UUU
Acenaphthylene	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Anthracene	70.000	ug/kg C UU	370.000	ug/kg C UU	440.000	ug/kg C UUU
Benz(a)anthracene	380.000	ug/kg C UU	370.000	ug/kg C UU	570.000	ug/kg C UUU
Benz(a)pyrene	510.000	ug/kg C UU	370.000	ug/kg C UU	510.000	ug/kg C UUU
Benz(b)fluoranthene	1200.000	ug/kg C UU	370.000	ug/kg C UU	630.000	ug/kg C UUU
Benz(g,h,i)perylene	420.000	ug/kg C UU	370.000	ug/kg C UU	150.000	ug/kg C UUU
Benz(k)fluoranthene	410.000	ug/kg C UU	370.000	ug/kg C UU	220.000	ug/kg C UUU
Benzoic acid	990.000	ug/kg C UU	910.000	ug/kg C UU	1900.000	ug/kg C UUU
Benzyl alcohol	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Butyl benzyl phthalate	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Carbazole	62.000	ug/kg C UU	370.000	ug/kg C UU	200.000	ug/kg C UUU
Chrysene	560.000	ug/kg C UU	370.000	ug/kg C UU	530.000	ug/kg C UUU
Di-n-butyl phthalate	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Di-n-octyl phthalate	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Dibenzo(a,h)anthracene	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Dibenzofuran	410.000	ug/kg C UU	370.000	ug/kg C UU	240.000	ug/kg C UUU
Diethyl phthalate	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Dimethyl phthalate	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Fluoranthene	870.000	ug/kg C UU	370.000	ug/kg C UU	1200.000	ug/kg C UUU
Fluorene	410.000	ug/kg C UU	370.000	ug/kg C UU	370.000	ug/kg C UUU
Hexachlorobenzene	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Hexachlorobutadiene	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Hexachlorocyclopentadiene	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Hexachloroethane	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Indeno(1,2,3-cd)pyrene	260.000	ug/kg C UU	370.000	ug/kg C UU	320.000	ug/kg C UUU
Isophorone	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
N-Nitroso-di-n-propylamine	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
N-Nitrosodiphenylamine	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Naphthalene	410.000	ug/kg C UU	370.000	ug/kg C UU	290.000	ug/kg C UUU
Nitrobenzene	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU
Pentachloropheno1	990.000	ug/kg C UU	910.000	ug/kg C UU	950.000	ug/kg C UUU
Phenanthrene	490.000	ug/kg C UU	370.000	ug/kg C UU	1400.000	ug/kg C UUU
Pheno1	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UUU

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1992	1992	1993			
SAMPLE NUMBER	115343	115346	115339			
SAMPLING DATE	7.5-10 05/11/93	17.5-20 05/11/93	2.5-5 05/11/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Pyrene	790.000	ug/kg C J	370.000	ug/kg C UJ	890.000	ug/kg C -
bis(2-Chloroethoxy)methane	410.000	ug/kg C U	370.000	ug/kg C U	390.000	ug/kg C U
bis(2-Chloroethyl)ether	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UU
bis(2-Chloroisopropyl) ether	410.000	ug/kg C UU	370.000	ug/kg C UU	390.000	ug/kg C UU
bis(2-Ethylhexyl) phthalate	340.000	ug/kg C J	310.000	ug/kg C J	800.000	ug/kg C -
p-Chloroaniline	410.000	ug/kg C UJ	370.000	ug/kg C UJ	390.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.200	ug/kg C U	3.800	ug/kg C U	3.900	ug/kg C U
4,4'-DDE	4.200	ug/kg C UU	3.800	ug/kg C UU	3.900	ug/kg C UU
4,4'-DDT	4.200	ug/kg C UUU	3.800	ug/kg C UUU	3.900	ug/kg C UUU
Aldrin	2.200	ug/kg C UUUU	2.000	ug/kg C UUUU	2.000	ug/kg C UUUU
Aroclor-1016	42.000	ug/kg C UUUUU	38.000	ug/kg C UUUUU	39.000	ug/kg C UUUUU
Aroclor-1221	86.000	ug/kg C UUUUUU	77.000	ug/kg C UUUUUU	80.000	ug/kg C UUUUUU
Aroclor-1232	42.000	ug/kg C UUUUUU	38.000	ug/kg C UUUUUU	39.000	ug/kg C UUUUUU
Aroclor-1242	42.000	ug/kg C UUUUUU	38.000	ug/kg C UUUUUU	39.000	ug/kg C UUUUUU
Aroclor-1248	42.000	ug/kg C UUUUUU	38.000	ug/kg C UUUUUU	39.000	ug/kg C UUUUUU
Aroclor-1254	42.000	ug/kg C UUUUUU	38.000	ug/kg C UUUUUU	39.000	ug/kg C UUUUUU
Aroclor-1260	42.000	ug/kg C UUUUUU	38.000	ug/kg C UUUUUU	39.000	ug/kg C UUUUUU
Dieldrin	4.200	ug/kg C UUUUUU	3.800	ug/kg C UUUUUU	3.900	ug/kg C UUUUUU
Endosulfan II	4.200	ug/kg C UUUUUU	3.800	ug/kg C UUUUUU	3.900	ug/kg C UUUUUU
Endosulfan sulfate	4.200	ug/kg C UUUUUU	3.800	ug/kg C UUUUUU	3.900	ug/kg C UUUUUU
Endosulfan-I	2.200	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU
Endrin	4.200	ug/kg C UUUUUU	3.800	ug/kg C UUUUUU	3.900	ug/kg C UUUUUU
Endrin aldehyde	4.200	ug/kg C UUUUUU	3.800	ug/kg C UUUUUU	3.900	ug/kg C UUUUUU
Endrin ketone	4.200	ug/kg C UUUUUU	3.800	ug/kg C UUUUUU	3.900	ug/kg C UUUUUU
Heptachlor	2.200	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU
Heptachlor epoxide	2.200	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU
Methoxychlor	22.000	ug/kg C UUUUUU	20.000	ug/kg C UUUUUU	20.000	ug/kg C UUUUUU
Toxaphene	220.000	ug/kg C UUUUUU	200.000	ug/kg C UUUUUU	200.000	ug/kg C UUUUUU
alpha-BHC	2.200	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU
alpha-Chlordane	2.200	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU
beta-BHC	2.200	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU
delta-BHC	2.200	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU
gamma-BHC (Lindane)	2.200	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU
gamma-Chlordane	2.200	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU	2.000	ug/kg C UUUUUU

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175TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1993		2951	
SAMPLE NUMBER	115340		111432	
SAMPLING DATE	15-17.5		0-5.1	
05/11/93			04/21/93	
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Inorganics</u>				
Aluminum	7450.000	mg/kg	C	UJ
Antimony	1.300	mg/kg	C	UJ
Arsenic	5.700	mg/kg	C	-
Barium	53.200	mg/kg	C	-
Beryllium	0.430	mg/kg	C	-
Cadmium	0.850	mg/kg	C	-
Calcium	104000.000	mg/kg	C	-
Chromium	11.400	mg/kg	C	-
Cobalt	8.100	mg/kg	C	-
Copper	16.200	mg/kg	C	J
Cyanide	0.110	mg/kg	C	J
Iron	16100.000	mg/kg	C	J
Lead	9.200	mg/kg	C	-
Magnesium	26300.000	mg/kg	C	-
Manganese	395.000	mg/kg	C	J
Mercury	0.110	mg/kg	C	-
Molybdenum	1.800	mg/kg	C	U
Nickel	17.100	mg/kg	C	-
Potassium	1370.000	mg/kg	C	J
Selenium	0.220	mg/kg	C	J
Silicon	926.000	mg/kg	C	J
Silver	0.440	mg/kg	C	J
Sodium	158.000	mg/kg	C	J
Thallium	0.290	mg/kg	C	-
Vanadium	17.700	mg/kg	C	J
Zinc	42.900	mg/kg	C	J
<u>Volatile Organics</u>				
1,1,1-Trichloroethane	12.000	ug/kg	C	UJ
1,1,2,2-Tetrachloroethane	12.000	ug/kg	C	UJ
1,1,2-Trichloroethane	12.000	ug/kg	C	UJ
1,1-Dichloroethane	12.000	ug/kg	C	UJ
1,1-Dichloroethene	12.000	ug/kg	C	UJ
1,2-Dichloroethane	12.000	ug/kg	C	UJ
1,2-Dichloroethene	12.000	ug/kg	C	UJ
1,2-Dichloropropane	12.000	ug/kg	C	UJ
2-Butanone	12.000	ug/kg	C	UJ
2-Hexanone	12.000	ug/kg	C	UJ
4-Methyl-2-pentanone	12.000	ug/kg	C	UJ
Acetone	12.000	ug/kg	C	UJ
Benzene	12.000	ug/kg	C	UJ
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U
	15.000	ug/kg	C	U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1993	BORING NUMBER	2951
SAMPLE NUMBER	115340	SAMPLE NUMBER	111432
SAMPLING DATE	15-17.5 05/11/93	SAMPLING DATE	0-5.1 04/21/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>			
Bromodichloromethane	12.000	ug/kg	C UJ
Bromoform	12.000	ug/kg	C UU
Bromomethane	12.000	ug/kg	C UU
Carbon Tetrachloride	12.000	ug/kg	C UU
Carbon disulfide	12.000	ug/kg	C UU
Chlorobenzene	12.000	ug/kg	C UU
Chloroethane	12.000	ug/kg	C UU
Chloroform	12.000	ug/kg	C UU
Chloromethane	12.000	ug/kg	C UU
Dibromochloromethane	12.000	ug/kg	C UU
Ethylbenzene	12.000	ug/kg	C UU
Methylene chloride	12.000	ug/kg	C UU
Styrene	12.000	ug/kg	C UU
Tetrachloroethene	12.000	ug/kg	C UU
Toluene	12.000	ug/kg	C UU
Trichloroethene	12.000	ug/kg	C UU
Vinyl Acetate	12.000	ug/kg	C UU
Vinyl chloride	12.000	ug/kg	C UU
Xylenes, Total	12.000	ug/kg	C UU
cis-1,3-Dichloropropene	12.000	ug/kg	C UU
trans-1,3-Dichloropropene	12.000	ug/kg	C UU
<u>Semivolatile Organics</u>			
1,2,4-Trichlorobenzene	370.000	ug/kg	C U
1,2-Dichlorobenzene	370.000	ug/kg	C U
1,3-Dichlorobenzene	370.000	ug/kg	C U
1,4-Dichlorobenzene	370.000	ug/kg	C U
2,4,5-Trichlorophenol	910.000	ug/kg	C U
2,4,6-Trichlorophenol	370.000	ug/kg	C U
2,4-Dichlorophenol	370.000	ug/kg	C U
2,4-Dimethylphenol	370.000	ug/kg	C U
2,4-Dinitrophenol	910.000	ug/kg	C U
2,4-Dinitrotoluene	370.000	ug/kg	C U
2,6-Dinitrotoluene	370.000	ug/kg	C U
2-Chloronaphthalene	370.000	ug/kg	C U
2-Chlorophenol	370.000	ug/kg	C U
2-Methylnaphthalene	370.000	ug/kg	C U
2-Methylphenol	370.000	ug/kg	C U
2-Nitroaniline	910.000	ug/kg	C U
2-Nitrophenol	370.000	ug/kg	C U
3,3'-Dichlorobenzidine	370.000	ug/kg	C U

TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1993	SAMPLE NUMBER	2951
SAMPLING DATE	05/11/93		111432
			15-17.5
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>			
3-Nitroaniline	910.000	ug/kg C	U
4,6-Dinitro-2-methylphenol	910.000	ug/kg C	U
4-Bromophenyl phenyl ether	370.000	ug/kg C	U
4-Chloro-3-methylphenol	370.000	ug/kg C	U
4-Chlorophenylphenyl ether	370.000	ug/kg C	U
4-Methylphenol	370.000	ug/kg C	U
4-Nitroaniline	910.000	ug/kg C	U
4-Nitrophenol	910.000	ug/kg C	U
Acenaphthene	370.000	ug/kg C	U
Acenaphthylene	370.000	ug/kg C	U
Anthracene	370.000	ug/kg C	U
Benzo(a)anthracene	370.000	ug/kg C	U
Benzo(a)pyrene	370.000	ug/kg C	U
Benzo(b)fluoranthene	370.000	ug/kg C	U
Benzo(g,h,i)perylene	370.000	ug/kg C	U
Benzo(k)fluoranthene	370.000	ug/kg C	U
Benzoic acid	1800.000	ug/kg C	U
Benzyl alcohol	370.000	ug/kg C	U
Butyl benzyl phthalate	370.000	ug/kg C	U
Carbazole	370.000	ug/kg C	U
Chrysene	370.000	ug/kg C	U
Di-n-butyl phthalate	370.000	ug/kg C	U
Di-n-octyl phthalate	370.000	ug/kg C	U
Dibenzo(a,h)anthracene	370.000	ug/kg C	U
Dibenzofuran	370.000	ug/kg C	U
Diethyl phthalate	370.000	ug/kg C	U
Dimethyl phthalate	370.000	ug/kg C	U
Fluoranthene	370.000	ug/kg C	U
Fluorene	370.000	ug/kg C	U
Hexachlorobenzene	370.000	ug/kg C	U
Hexachlorobutadiene	370.000	ug/kg C	U
Hexachlorocyclopentadiene	370.000	ug/kg C	U
Hexachloroethane	370.000	ug/kg C	U
Indeno(1,2,3-cd)pyrene	370.000	ug/kg C	U
Isophorone	370.000	ug/kg C	U
N-Nitroso-di-n-propylamine	370.000	ug/kg C	U
N-Nitrosodiphenylamine	370.000	ug/kg C	U
Naphthalene	370.000	ug/kg C	U
Nitrobenzene	370.000	ug/kg C	U
Pentachlorophenol	910.000	ug/kg C	U
Phenanthrene	370.000	ug/kg C	U
Phenol	370.000	ug/kg C	U

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TABLE C-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1993		2951	
SAMPLE NUMBER	115340		111432	
	15-17.5		0-5.1	
SAMPLING DATE	05/11/93		04/21/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>				
Pyrene	370.000	ug/kg C U	NA	
bis(2-Chloroethoxy)methane	370.000	ug/kg C U	NA	
bis(2-Chloroethyl)ether	370.000	ug/kg C U	NA	
bis(2-Chloroisopropyl) ether	370.000	ug/kg C U	NA	
bis(2-Ethylhexyl) phthalate	470.000	ug/kg C U	NA	
p-Chloroaniline	370.000	ug/kg C U	NA	
<u>Pesticide Organics/PCBs</u>				
4,4'-DDD	3.700	ug/kg C U	NA	
4,4'-DDE	3.700	ug/kg C U	NA	
4,4'-DDT	3.700	ug/kg C U	NA	
Aldrin	1.900	ug/kg C U	NA	
Aroclor-1016	37.000	ug/kg C U	NA	
Aroclor-1221	75.000	ug/kg C U	NA	
Aroclor-1232	37.000	ug/kg C U	NA	
Aroclor-1242	37.000	ug/kg C U	NA	
Aroclor-1248	37.000	ug/kg C U	NA	
Aroclor-1254	37.000	ug/kg C U	NA	
Aroclor-1260	37.000	ug/kg C U	NA	
Dieldrin	3.700	ug/kg C U	NA	
Endosulfan II	3.700	ug/kg C U	NA	
Endosulfan sulfate	3.700	ug/kg C U	NA	
Endosulfan-I	1.900	ug/kg C U	NA	
Endrin	3.700	ug/kg C U	NA	
Endrin aldehyde	3.700	ug/kg C U	NA	
Endrin ketone	3.700	ug/kg C U	NA	
Heptachlor	1.900	ug/kg C U	NA	
Heptachlor epoxide	1.900	ug/kg C U	NA	
Methoxychlor	19.000	ug/kg C U	NA	
Toxaphene	190.000	ug/kg C U	NA	
alpha-BHC	1.900	ug/kg C U	NA	
alpha-Chlordane	1.900	ug/kg C U	NA	
beta-BHC	1.900	ug/kg C U	NA	
delta-BHC	1.900	ug/kg C U	NA	
gamma-BHC (Lindane)	1.900	ug/kg C U	NA	
gamma-Chlordane	1.900	ug/kg C U	NA	

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TABLE C-6B
SOLID WASTE LANDFILL
TENTATIVELY IDENTIFIED COMPOUNDS
SUBSURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
115362	1989	pentacosane	6600	ug/kg
115362	1989	pentacosane	5800	ug/kg
115362	1989	pentacosane	6300	ug/kg
115362	1989	pentacosane	5700	ug/kg
115362	1989	pentacosane	4300	ug/kg
115363	1989	pentacosane	130	ug/kg
115363	1989	tridecane, 2-methyl-	190	ug/kg
115363	1989	hexanedioic acid, mono(2-eth	330	ug/kg
115371	11037	dodecanamide, n,n-bis(2-hydr	150	ug/kg
115371	11037	pentacosane	280	ug/kg
115371	11037	pentacosane	340	ug/kg
115371	11037	pentacosane	300	ug/kg
115371	11037	phosphoric acid, tris(3-meth	330	ug/kg
115372	11037	pentacosane	170	ug/kg
115372	11037	heptadecane, 2,6-dimethyl-	170	ug/kg
115372	11037	octadecane	140	ug/kg
115372	11037	pentacosane	130	ug/kg
115372	11037	pentacosane	330	ug/kg
115372	11037	pentacosane	370	ug/kg
115372	11037	pentacosane	390	ug/kg
115372	11037	pentacosane	320	ug/kg
115380	11036	pentacosane	170	ug/kg
115380	11036	heptadecane, 2,6-dimethyl-	160	ug/kg
115380	11036	1,2-benzenedicarboxylic acid	460	ug/kg
115380	11036	heptadecane, 2,6-dimethyl-	170	ug/kg
115380	11036	pentacosane	270	ug/kg
115380	11036	pentacosane	220	ug/kg
115377	11038	2-cyclohexen-1-one, 3,5-dime	190	ug/kg
115377	11038	2-pentanone, 4-hydroxy-4-met	15000	ug/kg
115377	11038	2(5h)-furanone, 5,5-dimethyl	160	ug/kg
115377	11038	hexanoic acid	170	ug/kg
115377	11038	dodecanamide, n,n-bis(2-hydr	130	ug/kg
115377	11038	1,2-benzenedicarboxylic acid	360	ug/kg
115377	11038	pentadecane	210	ug/kg
115377	11038	pentadecane	420	ug/kg
115377	11038	pentadecane	480	ug/kg
115377	11038	pentadecane	230	ug/kg
115377	11038	pentadecane	210	ug/kg
115377	11038	heptadecane, 2,6-dimethyl-	100	ug/kg
115376	11038	2-cyclohexen-1-one, 3,5-dime	200	ug/kg
115376	11038	ethanone, 1-oxiranyl-	370	ug/kg
115376	11038	1,2-benzenedicarboxylic acid	190	ug/kg
115376	11038	11h-benzo[a]fluorene	93	ug/kg
115376	11038	benzo[j]fluoranthene	260	ug/kg
115381	11036	3-pantanone, 2,4-dimethyl-	14	ug/kg
115381	11036	phosphoric acid tributyl est	6800	ug/kg
115381	11036	1,2-benzenedicarboxylic acid	370	ug/kg
115381	11036	benzo[e]pyrene	190	ug/kg
115384	11039	benzene, 1-ethenyl-2-methyl-	11	ug/kg
115384	11039	dibenzothiophene	49000	ug/kg
115384	11039	benzo[q]quinoline	34000	ug/kg
115384	11039	phenanthrene, 3-methyl-	61000	ug/kg
115384	11039	anthracene, 2-methyl-	82000	ug/kg
115384	11039	phenanthrene, 3-methyl-	36000	ug/kg
115384	11039	6h-cyclobuta[jk]phenanthrene	130000	ug/kg
115384	11039	naphthalene, 2-phenyl-	52000	ug/kg
115384	11039	benzo[b]naphtho[2,3-d]furan	41000	ug/kg

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TABLE C-6B
SOLID WASTE LANDFILL
TENTATIVELY IDENTIFIED COMPOUNDS
SUBSURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
112507	1973	methane, chlorodifluoro-	140	ug/kg
115319	1991	3-penten-2-one	110	ug/kg
115319	1991	cyclopropane, 1,1,2,2,-tetram	140	ug/kg
115319	1991	1-heptanol, 2,4-dimethyl-,	97	ug/kg
115319	1991	hexane, 2-bromo	310	ug/kg
115319	1991	6h-cyclobuta[jk]phenanthrene	210	ug/kg
115319	1991	11h-benzo[A]fluorene	180	ug/kg
115319	1991	11h-benzo[A]fluorene	130	ug/kg
115319	1991	benzo[ghi]fluoranthene	110	ug/kg
115319	1991	benzo[c]phenanthrene	210	ug/kg
115319	1991	benzo[j]fluoranthene	100	ug/kg
115319	1991	benzo[j]fluoranthene	410	ug/kg
115321	1991	ethanone, 1-cyclopropyl-	110	ug/kg
115321	1991	cyclopropane, 1,1,2,2-tetram	110	ug/kg
115321	1991	propanoic acid, 2-methyl-,1	110	ug/kg
111480	1983	pentacosane	330	ug/kg
111480	1983	pentacosane	620	ug/kg
111480	1983	pentacosane	810	ug/kg
111480	1983	pentacosane	690	ug/kg
111480	1983	pentacosane	480	ug/kg
111480	1983	pentacosane	280	ug/kg
111480	1983	octacosane	270	ug/kg
111484	1982	3-penten-2-one	170	ug/kg
111484	1982	3-pentatone, 2,4-dimethyl	17	ug/kg
111484	1982	cyclopentasiloxane, decameth	17	ug/kg
111484	1982	benzo[j]fluoranthene	130	ug/kg
111487	1982	cyclopropane, 1,1,2,2-tetram	83	ug/kg
111487	1982	propanoic acid, 2-methyl-, 1	79	ug/kg
115335	1990	glycene, n-methyl-n-(1-oxodo	130	ug/kg
115335	1990	decane, 2,3,7-trimetyl-	120	ug/kg
115335	1990	nonane, 3-methyl-5-propyl-	120	ug/kg
115335	1990	octane, 2,4,6-trimethyl-	130	ug/kg
115335	1990	octane, 2,4,6-trimethyl-	190	ug/kg
115335	1990	undecane, 3,8-dimethyl	240	ug/kg
115335	1990	decane, 6-ethyl-2-methyl	250	ug/kg
115335	1990	octane, 2,4,6-trimethyl-	410	ug/kg
115343	1992	anthracene, 2-methyl-	150	ug/kg
115343	1992	11h-benzo[a]fluorene	110	ug/kg
115343	1992	11h-benzo[a]fluorene	67	ug/kg
115343	1992	1-pentanol, 3-methyl-2-propy	61	ug/kg
115343	1992	1-pentanol, 3-methyl-2-propy	73	ug/kg
115343	1992	benzo[j]fluoranthene	190	ug/kg
115346	1992	heptane, 2-methyl-	360	ug/kg
115346	1992	undecane, 4,6-dimethyl	110	ug/kg
115346	1992	decane, 2,3,5-trimethyl-	360	ug/kg
115346	1992	decane, 2,3,7-trimethyl-	140	ug/kg
115346	1992	decane, 2,3,7-trimethyl-	160	ug/kg
115346	1992	undecane, 3,8-dimethyl-	160	ug/kg
115346	1992	decane, 2,3,5-trimethyl-	130	ug/kg
115346	1992	undecane, 5,7-dimethyl-	170	ug/kg
115346	1992	decane, 3,8-dimethyl-	200	ug/kg
115362	1989	octamethyl-	49	ug/kg
115362	1989	2,3-butanedione, mono oxime	6400	ug/kg
115362	1989	pentacosane	3800	ug/kg
115362	1989	tetracosane	5100	ug/kg

TABLE C-6B
SOLID WASTE LANDFILL
TENTATIVELY IDENTIFIED COMPOUNDS
SUBSURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
115384	11039	indeno(1,2,3-ij)isoquinoline	42000	ug/kg
115384	11039	11h-benzo[a]fluorene	130000	ug/kg
115384	11039	11h-benzo[a]fluorene	94000	ug/kg
115384	11039	benzo[b]naphtho[1,2-d]thioph	43000	ug/kg
115384	11039	benzo[c]phenanthrene	110000	ug/kg
115384	11039	triphenylene, 2-methyl-	48000	ug/kg
115384	11039	benzo[j]fluoranthene	200000	ug/kg
115384	11039	benzo[j]fluoranthene	70000	ug/kg
115385	11039	anthracene, 1-methyl-	160	ug/kg
115385	11039	11h-benzo[a]fluorene	300	ug/kg
115385	11039	11h-benzo[a]fluorene	260	ug/kg
115385	11039	benzo[c]phenanthrene	200	ug/kg
115385	11039	benzo[e]pyrene	180	ug/kg
115385	11039	benzo[j]fluoranthene	510	ug/kg
115389	11041	dibenzothiophene	1900	ug/kg
115389	11041	anthracene, 1-methyl-	2000	ug/kg
115389	11041	benzo[b]naphtho[2,3-d]furan	2300	ug/kg
115389	11041	11h-benzo[a]fluorene	6100	ug/kg
115389	11041	11h-benzo[b]fluorene	5200	ug/kg
115389	11041	pyrene, 4-methyl-	2300	ug/kg
115389	11041	benzo[b]naphtho[2,1-d]thioph	3700	ug/kg
115389	11041	benzo[ghi]fluoranthene	3300	ug/kg
115389	11041	benzo[c]phenanthrene	5300	ug/kg
115389	11041	triphenylene, 2-methyl-	2000	ug/kg
115389	11041	benzo[j]fluoranthene	2700	ug/kg
115389	11041	benzo[j]fluoranthene	9900	ug/kg
115390	11041	pentacosane	140	ug/kg
115392	11040	ethanone, 1-oxiranyl-	250	ug/kg
115392	11040	cyclohexane, 1-(1,5-dimethyl	120	ug/kg
115392	11040	dotriacontane	210	ug/kg
115392	11040	dotriacontane	370	ug/kg
115392	11040	dotriacontane	360	ug/kg
115392	11040	dotriacontane	190	ug/kg
115392	11040	tritetracontane	290	ug/kg

TABLE C-7A
SOLID WASTE LANDFILL
CIS SUBSURFACE SOIL RADIOLOGICAL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

FEMP ID #	PS49004				PS49020				PS49034			
	Boring	49-01			Boring	49-02			Boring	49-03		
Depth	0-18'				Depth	0-12'			Depth	0-16'		
Date	04/29/87				Date	04/29/87			Date	04/30/87		
Isotope	Activity (pCi/g)	Uncertainty	Validation Qualifier		Activity (pCi/g)	Uncertainty	Validation Qualifier		Activity (pCi/g)	Uncertainty	Validation Qualifier	
Cesium-137	0.25	NA ^a	U		0.33	NA	U		0.19	NA	U	
Neptunium-237	0.21	±0.06			0.14	±0.05			0.04	NA	U	
Plutonium-238	0.03	NA	U		0.04	NA	U		0.05	±0.02	J	
Plutonium-239/240	0.02	NA	U		0.03	NA	U		0.02	NA	U	
Ruthenium-106	2.00	NA	U		2.54	NA	U		1.60	NA	U	
Strontium-90	0.46	NA	U		0.39	NA	U		0.40	NA	U	
Technetium-99	248	±28.2			967	±113			1.30	NA	U	
Thorium-228	0.17	±0.08			0.21	±0.08	J		0.20	±0.11	J	
Thorium-230	0.10	±0.05	U		0.13	±0.10	U		0.10	±0.06	U	
Thorium-232	0.02	NA	U		0.05	NA	U		0.03	NA	U	
Uranium-234	9.33	±0.49	U		8.49	±0.44	U		27.9	±0.83	J	
Uranium-235	0.48	±0.11	U		0.41	±0.10	U		1.37	±0.19	J	
Uranium-238	16.5	±0.65	U		12.6	±0.53	U		34.8	±0.93	J	

See footnote at end of table

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TABLE C-7A
(Continued)

FEMP ID #	PS49048			PS49057			PS49073		
	Boring	49-04		49-05		49-06			
Depth	0-8'			0-14'		0-18'			
Date	04/30/87			05/01/87		05/04/87			
Isotope	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Validation Qualifier
Cesium-137	0.20	NA	U	0.31	NA	U	0.29	NA	U
Neptunium-237	0.10	NA	U	0.10	NA	U	0.11	± 0.04	
Plutonium-238	0.03	NA	U	0.06	NA	U	0.07	NA	U
Plutonium-239/240	0.02	NA	U	0.02	NA	U	0.04	NA	U
Ruthenium-106	1.54	NA	U	2.46	NA	U	2.48	NA	U
Strontium-90	0.36	NA	U	0.35	NA	U	0.39	NA	U
Technetium-99	1.30	NA	U	1.40	NA	U	3.76	± 0.58	
Thorium-228	0.23	± 0.09	J	0.37	± 0.14	J	0.26	± 0.08	J
Thorium-230	0.06	NA	U	0.13	± 0.07	U	0.17	± 0.07	U
Thorium-232	0.08	NA	U	0.04	± 0.03	J	0.06	NA	U
Uranium-234	4.94	± 0.37	U	6.39	± 0.41	U	8.42	± 0.47	U
Uranium-235	0.36	± 0.11	U	0.36	± 0.10	U	0.61	± 0.13	U
Uranium-238	11.9	± 0.57	U	12.6	± 0.57	U	30.2	± 0.89	J

^aNot applicable

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TABLE C-7B

**SOLID WASTE LANDFILL
CIS SUBSURFACE SOIL RESULTS
NON-RADIOLOGICAL DATA
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
			FEMP ID#			
	FEMP ID#		PS-49-002		FEMP ID#	
	PS-49-001		(Dup. of PS-49-001)		PS-49-018	
	Boring 49-01		Boring 49-01		Boring 49-02	
INORGANICS (mg/kg)						
Aluminum	17200	J	10300	J	10200	J
Antimony	0.3	UJ	0.3	UJ	0.3	J
Arsenic	0.9	J	0.4	UJ	3.3	J
Barium	124		37	U	115	-
Beryllium	[0.4]	U	0.4	U	0.4	J
Cadmium	2.5		1.9	-	2.9	J
Calcium	15700	J	88700	J	23200	J
Chromium	21	J	25	J	14	-
Cobalt	2.5		4.3	-	9.8	U
Copper	20	U	17	U	16	U
Cyanide	0.6	UJ	0.6	UJ	0.6	UJ
Iron	16500	J	17100	J	18100	J
Lead	19	UJ	9.3	UJ	13	UJ
Magnesium	7370	J	26500	J	8200	J
Manganese	248		427	J	436	J

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
			FEMP ID# PS-49-002 (Dup. of PS-49-001) Boring 49-01		FEMP ID# PS-49-018 Boring 49-01	
INORGANICS (mg/kg) (Continued)						
Mercury	0.2		3.4	-	0.1	-
Nickel	13		14	-	22	U
Potassium	625		1220	-	492	J
Selenium	0.4	UJ	0.4	UJ	0.4	J
Silver	1.6	UJ	1.2	UJ	1.5	UJ
Sodium	72	U	356	-	69	U
Thallium	0.2	UJ	0.2	UJ	0.2	J
Vanadium	27	UJ	20	UJ	20	J
Zinc	64	J	52	J	61	UJ
			FEMP ID# PS-49-002 (Dup. of PS-49-001) Boring 49-01		FEMP ID# PS-49-018 Boring 49-01	
PCBs/PESTICIDES (µg/kg)						
4,4-Dde	39	U	18	U	20	U
Aldrin	19	U	9.1	U	10	U
Alpha-bhc	19	U	9.1	U	10	U
Aroclor-1016	190	U	91	U	100	U
Aroclor-1221	190	U	91	U	100	U

TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
			FEMP ID#			
	FEMP ID#		PS-49-002			
	PS-49-001		(Dup. of PS-49-001)			
	Boring 49-01		Boring 49-01			
PCBs/PESTICIDES (µg/kg) (Continued)						
Aroclor-1232	190	U	91	U	100	U
Aroclor-1242	190	U	91	U	260	U
Aroclor-1248	190	U	110	U	100	U
Aroclor-1254	390	U	180	U	200	U
Aroclor-1260	390	U	180	U	200	U
Beta-bhc	19	U	9.1	U	10	U
Chlordane	190	U	91	U	100	U
Delta-bhc	19	U	9.1	U	10	U
Dieldrin	39	U	18	U	20	U
Endosulfan I	19	U	9.1	U	10	U
Endosulfan II	39	U	18	U	20	U
Endosulfan sulfate	39	U	18	U	20	U
Endrin	39	U	18	U	20	U
Endrin ketone	39	U	18	U	20	U
Heptachlor	19	U	9.1	U	10	U

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
			FEMP ID# PS-49-002 (Dup. of PS-49-001) Boring 49-01		FEMP ID# PS-49-018 Boring 49-02	
PCBs/PESTICIDES (µg/kg) (Continued)						
Heptachlor epoxide	19	U	9.1	U	10	U
Methoxychlor	190	U	91	U	100	U
Toxaphene	390	U	180	U	200	U
			FEMP ID# PS-49-002 (Dup. of PS-49-001) Boring 49-01		FEMP ID# PS-49-018 Boring 49-02	
VOLATILE ORGANICS (µg/kg)						
1,1,1-Trichloroethane	200	U			210	U
1,1,2,2-Tetrachloroethane	200	U			210	U
1,1,2-Trichloroethane	200	U			210	U
1,1-Dichloroethane	200	U			210	U
1,1-Dichloroethene	200	U			210	U
1,2-Dichloroethane	200	U			210	U
1,2-Dichloropropane	200	U			210	U
1,2-Dichloropropene					ND	NV
1,3-Dichloropropene	200	U			210	U
2-Butanone	400	R			420	R
2-Chloroethyl vinyl ether	400	UJ			420	R

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID#		FEMP ID#		FEMP ID#	
	PS-49-001		PS-49-002	(Dup. of PS-49-001)	PS-49-018	
	Boring 49-01		Boring 49-01		Boring 49-02	
VOLATILE ORGANICS (µg/kg) (Continued)						
2-Hexanone	400	UJ			420	UJ
4-Methyl-2-pentanone	400	U			420	U
Acetone	400	U			210	U
Acrolein	ND	R			ND	NV
Benzene	200	U			ND	NV
Bromodichloromethane	200	U			210	U
Bromoform	200	U			210	U
Bromomethane	400	UJ			210	U
Carbon disulfide	200	U			420	U
Carbon tetrachloride	200	U			210	U
Chlorobenzene	200	U			210	U
Chloroethane	400	UJ			210	U
Chloroform	200	U			420	UJ
Chloromethane	400	U			210	U
Dibromochloromethane	200	U			420	UJ
Ethylbenzene	200	U			210	U
Methylene chloride	320	U			160	U
Dichlorodifluoromethane					ND	NV

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
			FEMP ID# PS-49-002 (Dup. of PS-49-001) Boring 49-01		FEMP ID# PS-49-018 Boring 49-02	
VOLATILE ORGANICS (µg/kg) (Continued)						
Ethylbenzene					210	U
Styrene	200	U			210	U
Tetrachloroethene	200	U			210	U
Toluene	200	U			210	U
Total xylene	200	U			210	U
Trans-1,2-dichloroethene	200	U			210	U
Trichloroethene	200	U			210	U
Vinyl acetate	400	U				
Vinyl chloride	400	U				
			FEMP ID# PS-49-002 (Dup. of PS-49-001) Boring 49-01		FEMP ID# PS-49-018 Boring 49-02	
SEMI-VOLATILE ORGANICS (µg/kg)						
1,2,4-Trichlorobenzene	450	U	420	U	460	U
1,2-Dichlorobenzene	450	U	420	U	460	U
1,3-Dichlorobenzene	450	U	420	U	460	U
1,4-Dichlorobenzene	450	U	420	U	460	U
2,4,5-Trichlorophenol	2300	U	2100	U	2300	U

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
			FEMP ID#			
	FEMP ID#		PS-49-002			
	PS-49-001		(Dup. of PS-49-001)			
	Boring 49-01		Boring 49-01			
SEMI-VOLATILE ORGANICS ($\mu\text{g}/\text{kg}$) (Continued)						
2,4,6-Trichlorophenol	450	U	420	U	460	U
2,4-Dichlorophenol	450	U	420	U	460	U
2,4-Dimethylphenol	450	U	420	U	460	U
2,4-Dinitrophenol	2300	R	2100	R	2300	UJ
2,4-Dinitrotoluene	450	U	420	U	460	U
2,6-Dinitrotoluene			420	U	460	U
2-Chloronaphthalene	450	U	420	U	460	U
2-Chlorophenol	450	U	420	U	460	U
2-Methylnaphthalene	66	J	420	U	460	U
2-Methylphenol	450	U	420	U	460	U
2-Nitroaniline	2300	U	2100	U	2300	U
2-Nitrophenol	450	U	420	U	460	U
3,3-Dichlorobenzidine	900	U	840	U	920	U
3-Nitroaniline	2300	U	2100	U	2300	U
4,6-Dinitro-2-methylphenol	2300	UJ	2100	UJ	2300	UJ
4-Bromophenyl phenyl ether	450	U	420	U	460	U
4-Chloroaniline	450	U	420	U	460	U
4-Chloro-3-methylphenol	450	U	420	U	460	U

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(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
			FEMP ID#			
	FEMP ID#		PS-49-002		FEMP ID#	
	PS-49-001		(Dup. of PS-49-001)		PS-49-018	
	Boring 49-01		Boring 49-01		Boring 49-02	
SEMI-VOLATILE ORGANICS ($\mu\text{g/kg}$) (Continued)						
4-Methylphenol	450	U	420	U	460	U
4-Nitroaniline	2300	U	2100	U	2300	U
4-Nitrophenol	2300	U	2100	U	2300	U
Acenaphthene	1300	U	420	U	460	U
Acenaphthylene	450	U	420	U	460	U
Anthracene	2700	-	420	U	460	U
Benzoic acid	2300	UJ	2100	UJ		R
Benzo(a)anthracene	16000		420	U	130	J
Benzo(a)pyrene	7000	-	420	U	100	J
Benzo(b)fluoranthene	6700	-	420	U	98	J
Benzo(g,h,i)perylene	6000	-	420	U	460	U
Benzo(k)fluoranthene	4000	-	420	U	84	J
Benzyl alcohol	450	U	420	U	460	U
Bis(2-chloroethoxy)methane	450	U	420	U	460	U
Bis(2-chloroethyl)ether	450	U	420	U	460	U
Bis(2-chloroisopropyl)ether	450	U	420	U	460	U
Bis(2-ethylhexyl)phthalate	550	J	120	J	460	UJ
Bis(chloromethyl)ether					ND	NV

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
			FEMP ID#		FEMP ID#	
			PS-49-002		PS-49-018	
			(Dup. of PS-49-001)			
			Boring 49-01		Boring 49-01	
SEMI-VOLATILE ORGANICS ($\mu\text{g}/\text{kg}$) (Continued)						
Butyl benzyl phthalate	450	UJ	420	UJ	460	UJ
Chrysene	18000		420	U	460	U
Dibenzofuran	620	-	420	U	460	U
Dibenzo(a,h)anthracene	2100	J	420	UJ	460	U
Diethyl phthalate	450	U	420	U	460	U
Dimethyl phthalate	450	U	420	U	460	U
Di-n-butylphthalate	55	U	420	U	460	U
Di-n-octylphthalate	350	J	92	J	460	U
Fluoranthene	32000	-	59	J	330	J
Fluorene	1400		420	U	460	U
Hexachlorobenzene	450	U	420	U	460	U
Hexachlorobutadiene	450	U	420	U	460	U
Hexachlorocyclopentadiene	450	UJ	420	UJ	460	UJ
Hexachloroethane	450	U	420	U	460	U
Indeno(1,2,3-cd)pyrene	5700	-	420	U	460	U
Isophorone	450	U	420	U	460	U
Naphthalene	450	U	420	U	460	U
Nitrobenzene	450	U	420	U	460	U

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
			FEMP ID# PS-49-002 (Dup. of PS-49-001) Boring 49-01		FEMP ID# PS-49-018 Boring 49-01	
SEMI-VOLATILE ORGANICS (µg/kg) (Continued)						
N-nitrosodiphenylamine	450	U	420	U	460	U
N-nitroso-di-n-propylamine	450	U	420	U	460	U
Pentachlorophenol	2300	U	2100	U	2300	U
Phenanthrene	38000	-	420	U	320	J
Phenol	450	U	420	U	460	U
Pyrene	31000	J	43	J	240	J
	FEMP ID# PS-49-032 Boring 49-03		FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-05	
INORGANICS (mg/kg)						
Aluminum	9670	J	6370	J	10100	J
Antimony	2.1	J	0.6	J	0.3	J
Arsenic	5.8	J	6.7	J	4.8	J
Barium	82	-	31	J	68	-
Beryllium	0.4	J	0.2	U	0.4	J
Cadmium	2.9	J	0.4	UJ	3.0	J
Calcium	67600	J	78400	J	67600	J
Chromium	21	-	9.2	-	14	
Cobalt	9.2	U	5.4	U	8.3	U

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID#		FEMP ID#		FEMP ID#	
	PS-49-032		PS-49-046		PS-49-055	
	Boring 49-03		Boring 49-04		Boring 49-05	
INORGANICS (mg/kg) (Continued)						
Copper	13	U	11	U	30	U
Cyanide	0.6	UJ	0.6	UJ	0.6	J
Iron	15600	J	13500	J	17300	J
Lead	16	UJ	14	UJ	13	UJ
Magnesium	22000	J	25700	J	19800	J
Manganese	716	J	338	J	559	J
Mercury	0.2	-	0.1	U	0.1	U
Nickel	42	-	13	U	19	U
Potassium	811	J	654	J	725	J
Selenium	0.3	U	0.4	U	0.4	U
Silver	1.5	UJ	1.3	UJ	1.4	UJ
Sodium	180	J	77	J	64	J
Thallium	0.2	J	0.6	UJ	0.5	J
Vanadium	13	J	12	J	18	J
Zinc	167	U	40	UJ	56	UJ

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-032 Boring 49-03		FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-05	
PCBs/PESTICIDES ($\mu\text{g}/\text{kg}$)						
4,4-Dde	380	U	19	U	20	U
Aldrin	190	U	10	U	10	U
Alpha-bhc	190	U	10	U	10	U
Aroclor 1016	1900	U	95	U	98	U
Aroclor 1221	1900	U	95	U	98	U
Aroclor 1232	1900	U	95	U	98	U
Aroclor 1242	1600	J	110	U	130	-
Aroclor 1248	1900	U	95	U	98	U
Aroclor 1254	3800	U	190	U	200	U
Aroclor 1260	3800	U	190	U	200	U
Beta-bhc	190	U	10	U	10	U
Chlordane	1900	U	95	U	98	U
Delta-bhc	190	U	10	U	10	U
Dieldrin	380	U	19	U	20	U
Endosulfan I	190	U	10	U	10	U
Endosulfan II	380	U	19	U	20	U
Endosulfan sulfate	380	U	19	U	20	U
Endrin	380	U	19	U	20	U
Endrin ketone	380	U	19	U	20	U

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-032 Boring 49-03		FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-05	
PCBs/PESTICIDES ($\mu\text{g}/\text{kg}$) (Continued)						
Heptachlor	190	U	10	U	10	U
Heptachlor epoxide	190	U	10	U	10	U
Methoxychlor	1900	U	95	U	98	U
Toxaphene	3800	U	190	U	200	U
	FEMP ID# PS-49-032 Boring 49-03		FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-05	
VOLATILE ORGANICS ($\mu\text{g}/\text{kg}$)						
1,1,1-Trichloroethane	200	U	200	U	200	U
1,1,2,2-Tetrachloroethane	200	U	200	U	200	U
1,1,2-Trichloroethane	200	U	200	U	200	U
1,1-Dichloroethane	200	U	200	U	200	U
1,1-Dichloroethene	200	U	200	U	200	U
1,2-Dichloroethane	200	U	200	U	200	U
1,2-Dichloropropane	200	U	200	U	200	U
1,3-Dichloropropene	200	U	200	U	200	U
2-Butanone	390	R	390	R	400	R
2-Chloroethyl vinyl ether	390	R	390	R	400	R
2-Hexanone	390	UJ	390	UJ	400	UJ

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-032 Boring 49-03		FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-5	
VOLATILE ORGANICS (µg/kg) (Continued)						
4-Methyl-2-pentanone	390	U	390	U	400	U
Acetone	390	U	390	U	400	U
Acrolein	ND	R	ND	R	ND	R
Acrylonitrile	ND	NV	ND	R	ND	R
Benzene	200	U	200	U	200	U
Bromodichloromethane	200	U	200	U	200	U
Bromoform	200	U	200	U	200	U
Bromomethane	390	U	390	U	400	U
Carbon disulfide	200	U	200	U	200	U
Carbon tetrachloride	200	U	200	U	200	U
Chlorobenzene	200	U	200	U	200	U
Chloroethane	390	UJ	390	U	400	U
Chloroform	200	U	200	U	200	U
Chloromethane	390	UJ	390	UJ	400	UJ
Dibromochloromethane	200	U	200	U	200	U
Dichlorodifluoromethane	ND	NV	ND	R	ND	R
Ethylbenzene	91	J	200	U	200	U
Methylene chloride	200	U	200	U	200	U

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-032 Boring 49-03		FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-05	
VOLATILE ORGANICS (µg/kg) (Continued)						
Styrene	200	U	200	U	200	U
Tetrachloroethene	97	J	200	U	200	U
Toluene	180	J	200	U	200	U
Total xylene	320	-	200	U	200	U
Trans-1,2-dichloroethene	200	U	200	U	200	U
Trichloroethene	200	U	200	U	200	U
Trichlorofluoromethane	17	R				
Vinyl acetate	390	U	390	U	400	U
Vinyl chloride	390	U	390	U	400	U
	FEMP ID# PS-49-032 Boring 49-03		FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-05	
SEMI-VOLATILE ORGANICS (µg/kg)						
1,2,4-Trichlorobenzene	4300	U	440	U	450	U
1,2-Dichlorobenzene	4300	U	440	U	450	U
1,3-Dichlorobenzene	4300	U	440	U	450	U
1,4-Dichlorobenzene	4300	U	440	U	450	U
2,4,5-Trichlorophenol	22000	U	2200	U	2300	U
2,4,6-Trichlorophenol	4300	U	440	U	450	U

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-032 Boring 49-03			FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-05
SEMI-VOLATILE ORGANICS (µg/kg) (Continued)						
2,4-Dichlorophenol	4300	U	440	U	450	U
2,4-Dimethylphenol	4300	U	440	U	450	U
2,4-Dinitrophenol	22000	U	2200	R	2300	U
2,4-Dinitrotoluene	4300	UJ	440	U	450	U
2,6-Dinitrotoluene	4300	UJ	440	U	450	U
2-Chloronaphthalene	4300	U	440	U	450	U
2-Chlorophenol	4300	U	440	U	450	U
2-Methylnaphthalene	11000	-	440	U	450	U
2-Methylphenol	4300	U	440	U	450	U
2-Nitroaniline	22000	U	2200	U	2300	U
2-Nitrophenol	4300	U	440	U	450	U
3,3-Dichlorobenzidine	8600	U	880	U	900	U
3-Nitroaniline	22000	U	2200	U	2300	U
4,6-Dinitro-2-methylphenol	1700	J	2200	UJ	2300	U
4-Bromophenyl phenyl ether	4300	U	440	U	450	U
4-Chloroaniline	4300	U	440	U	450	U
4-Chloro-3-methylphenol	4300	U	440	U	450	U
4-Methylphenol	4300	U	440	U	450	U

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-032 Boring 49-03			FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-05
SEMI-VOLATILE ORGANICS ($\mu\text{g}/\text{kg}$) (Continued)						
4-Nitroaniline	22000	U	2200	U	2300	U
4-Nitrophenol	22000	U	2200	UJ	2300	U
Acenaphthene	4300	U	440	U	450	U
Acenaphthylene	4300	U	440	U	450	U
Anthracene	28000	-	440	U	85	J
Benzoic acid	22000	R	2200	UJ	2300	R
Benzo(a)anthracene	51000	J	440	U	150	J
Benzo(a)pyrene	48000	-	440	U	120	J
Benzo(b)fluoranthene	4300	U	440	U	120	J
Benzo(g,h,i)perylene	43000	-	440	U	110	J
Benzo(k)fluoranthene	49000	J	440	U	110	J
Benzyl alcohol	4300	U	440	U	450	U
Bis(2-chloroethoxy)methane	4300	UJ	440	U	450	U
Bis(2-chloroethyl)ether	4300	UJ	440	U	450	U
Bis(2-chloroisopropyl)ether	4300	UJ	440	U	450	U
Bis(2-ethylhexyl)phthalate	4300	UJ	440	U	150	J
Bis(chloromethyl)ether	ND	NV	ND	R	ND	R
Butyl benzyl phthalate	4300	UJ	440	UJ	450	U

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0242

135163

TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-032 Boring 49-03			FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-05
Chrysene	46000	-	440	U	170	J
Dibenzofuran	22000	U	440	U	450	U
Dibenzo(a,h)anthracene	11000	-	440	UJ	450	U
Diethyl phthalate	4300	UJ	440	U	450	U
Dimethyl phthalate	4300	U	440	U	450	U
Di-n-butylphthalate	4300	U	440	U	450	U
Di-n-octylphthalate	4300	U	440	U	300	J
Fluoranthene	260000	-	440	U	450	J
Fluorene	25000	-	440	U	450	U
Hexachlorobenzene	4300	U	440	U	450	U
Hexachlorobutadiene	4300	J	440	U	450	U
Hexachlorocyclopentadiene	4300	U	440	UJ	450	U
Hexachloroethane	4300	U	440	U	450	U
Indeno(1,2,3-cd)pyrene	31000	-	440	U	81	J
Isophorone	4300	U	440	U	450	U
Naphthalene	19000	-	440	U	450	U
Nitrobenzene	4300	UJ	440	U	450	U
N-nitrosodiphenylamine	4300	U	440	U	450	U

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-032 Boring 49-03		FEMP ID# PS-49-046 Boring 49-04		FEMP ID# PS-49-055 Boring 49-05	
SEMI-VOLATILE ORGANICS (µg/kg) (Continued)						
N-nitroso-di-n-propylamine	4300	U	440	U	67	J
Pentachlorophenol	22000	U	2200	U	2300	U
Phenanthrene	260000	-	440	U	330	J
Phenol	4300	U	440	U	450	U
Pyrene	63000	J	440	UJ	300	J
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05		FEMP ID# PS-49-071 Boring 49-06			
INORGANICS (mg/kg)						
Aluminum			9490			
Antimony			0.3	R		
Arsenic			5.3	J		
Barium			69			
Beryllium			0.2	J		
Cadmium			5.3			
Calcium			130000			
Chromium			19			
Cobalt			8.3	J		

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06		
	INORGANICS (mg/kg) (Continued)					
Copper			12			
Cyanide			0.6	J		
Iron			21800			
Lead			10			
Magnesium			30100			
Manganese			668			
Mercury			0.1	U		
Nickel			18			
Potassium			1970			
Selenium			0.3	U		
Silver			1.6	J		
Sodium			162	J		
Thallium			0.2	J		
Vanadium			20			
Zinc			50	J		

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06		
PCBs/PESTICIDES (µg/kg)						
4,4-Dde	98	U	20	U		
Aldrin	49	U	9.8	U		
Alpha-bhc	49	U	9.8	U		
Aroclor 1016	490	U	98	U		
Aroclor 1221	490	U	98	U		
Aroclor 1232	490	U	98	U		
Aroclor 1242	490	U	78	U		
Aroclor 1248	565		98	U		
Aroclor 1254	719	J	200	U		
Aroclor 1260	980	U	200	U		
Beta-bhc	49	U	9.8	U		
Chlordane	490	U	98	U		
Delta-bhc	49	U	9.8	U		
Dieldrin	98	U	20	U		
Endosulfan i	49	U	9.8	U		
Endosulfan ii	98	U	20	U		
Endosulfan sulfate	98	U	20	U		
Endrin	98	U	20	U		
Endrin ketone	98	U	20	U		

VHS

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06		
PCBs/PESTICIDES (µg/kg) (Continued)						
Heptachlor	49	U	9.8	U		
Heptachlor epoxide	49	U	9.8	U		
Methoxychlor	490	U	98	U		
Toxaphene	980	U	200	U		
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06		
VOLATILE ORGANICS (µg/kg)						
1,1,1-Trichloroethane			200	J		
1,1,2,2-Tetrachloroethane			200	U		
1,1,2-Trichloroethane			200	U		
1,1-Dichloroethane			200	U		
1,1-Dichloroethene			200	U		
1,2-Dichloroethane			200	U		
1,2-Dichloropropane			200	U		
1,3-Dichloropropene			200	U		
2-Chloroethyl vinyl ether			400	U		
2-Hexanone			400	U		

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06			
VOLATILE ORGANICS ($\mu\text{g/kg}$) (Continued)						
4-Methyl-2-pentanone	400	U				
Acetone	400	U				
Acrolein	ND	R				
Acrylonitrile	ND	R				
Benzene	200	U				
Bromodichloromethane	200	U				
Bromoform	200	J				
Bromomethane	400	UJ				
Carbon disulfide	200	U				
Carbon tetrachloride	200	J				
Chlorobenzene	200	U				
Chloroethane	400	UJ				
Chloroform	200	U				
Chloromethane	400	U				
Dibromochloromethane	200	U				
Dichlorodifluoromethane	ND	R				
Ethylbenzene	200	U				
Methylene chloride	200	UJ				

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06		
VOLATILE ORGANICS (µg/kg) (Continued)						
Styrene			200		U	
Tetrachloroethene			200		U	
Toluene			200		U	
Total xylene			200		U	
Trans-1,2-dichloroethene			200		U	
Trichloroethene			200		U	
Vinyl acetate			400		U	
Vinyl chloride			400		U	
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06		
SEMI-VOLATILE ORGANICS (µg/kg)						
1,2,4-Trichlorobenzene	450	UJ	460	UJ		
1,2-Dichlorobenzene	450	UJ	460	UJ		
1,3-Dichlorobenzene	450	UJ	460	UJ		
1,4-Dichlorobenzene	450	UJ	460	UJ		
2,4,5-Trichlorophenol	2300	UJ	2300	UJ		
2,4,6-Trichlorophenol	450	UJ	460	UJ		

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06		
	SEMI-VOLATILE ORGANICS ($\mu\text{g}/\text{kg}$) (Continued)					
2,4-Dichlorophenol	450	UJ	460	UJ		
2,4-Dimethylphenol	240	J	460	UJ		
2,4-Dinitrophenol	2300	UJ	2300	UJ		
2,4-Dinitrotoluene	450	UJ	460	UJ		
2,6-Dinitrotoluene	450	UJ	460	UJ		
2-Butanone			120	J		
2-Chloronaphthalene	450	UJ	460	UJ		
2-Chlorophenol	450	UJ	460	UJ		
2-Methylnaphthalene	1100	J	460	UJ		
2-Methylphenol	96	J	460	UJ		
2-Nitroaniline	2300	UJ	2300	UJ		
2-Nitrophenol	450	UJ	460	UJ		
3,3-Dichlorobenzidine	900	UJ	920	UJ		
3-Nitroaniline	2300	UJ	2300	UJ		
4,6-Dinitro-2-methylphenol	2300	UJ	2300	UJ		
4-Bromophenyl phenyl ether	450	UJ	460	UJ		
4-Chloroaniline	450	UJ	460	UJ		
4-Chloro-3-methylphenol	450	UJ	460	UJ		

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06		
SEMICVOLATILE ORGANICS (µg/kg) (Continued)						
4-Methylphenol	360	J	460	UJ		
4-Nitroaniline	2300	UJ	2300	UJ		
4-Nitrophenol	2300	UJ	2300	UJ		
Acenaphthene	450	J	460	UJ		
Acenaphthylene	1900	J	460	UJ		
Anthracene	3300	J	460	UJ		
Benzoic acid	2300	R	2300	R		
Benzo(a)anthracene	4100	J	460	UJ		
Benzo(a)pyrene	4800	J	460	UJ		
Benzo(b)fluoranthene	5800	J	460	UJ		
Benzo(g,h,i)perylene	1300	J	460	UJ		
Benzo(k)fluoranthene	3700	J	460	UJ		
Benzyl alcohol	450	UJ	460	UJ		
Bis(2-chloroethoxy)methane	450	UJ	460	UJ		
Bis(2-chloroethyl)ether	450	UJ	460	UJ		
Bis(2-chloroisopropyl)ether	450	UJ	460	UJ		
Bis(2-ethylhexyl)phthalate	450	UJ	49	J		
Bis(chloromethyl)ether			ND	R		

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06		

SEMI-VOLATILE ORGANICS ($\mu\text{g}/\text{kg}$)
(Continued)

Butyl benzyl phthalate	450	UJ	460	UJ		
Chrysene	4100	J	460	UJ		
Dibenzofuran	1700	J	460	UJ		
Dibenzo(a,h)anthracene	560	J	460	UJ		
Diethyl phthalate	450	UJ	460	UJ		
Dimethyl phthalate	450	UJ	460	UJ		
Di-n-butylphthalate	330	J	50	J		
Di-n-octylphthalate	450	UJ	460	UJ		
Fluoranthene	18000	J	460	UJ		
Fluorene	3400	J	460	UJ		
Hexachlorobenzene	450	UJ	460	UJ		
Hexachlorobutadiene	450	UJ	460	UJ		
Hexachlorocyclopentadiene	450	UJ	460	UJ		
Hexachloroethane	450	UJ	460	UJ		
Indeno(1,2,3-cd)pyrene	1400	J	460	UJ		
Isophorone	450	UJ	460	UJ		
Naphthalene	2700	J	460	UJ		
Nitrobenzene	450	UJ	460	UJ		

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TABLE C-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	FEMP ID# PS-49-061 (Dup. of PS-49-055) Boring 49-05			FEMP ID# PS-49-071 Boring 49-06		
SEMI-VOLATILE ORGANICS (µg/kg) (Continued)						
N-nitrosodiphenylamine	450	UJ	460	UJ		
N-nitroso-di-n-propylamine	450	UJ	460	UJ		
Pentachlorophenol	2300	UJ	2300	UJ		
Phenanthrene	16000	J	460	UJ		
Phenol	310	J	460	UJ		
Pyrene	4100	J	460	UJ		

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0253

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FEMP-OU02-4 DRAFT
February 18, 1994

TABLE C-8
SOLID WASTE LANDFILL
SUBSURFACE MEDIA ANALYSIS ENVIRONMENTAL SURVEY
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Analyte	1015IS1B Depth 3.5 ft.	1015IS2B Depth 6.5 ft.
RADIONUCLIDES		
Bismuth-214	0.78±0.05	0.93±0.06
Cesium-137	0.14±0.02	I
Radium-226	0.79±0.04	0.9±0.04
Thorium-228	0.97±0.07	0.97±0.06
Thorium-232	0.72±0.09	0.94±0.08
Uranium-235	0.72±0.01	0.41±0.01
Uranium-238	99±5	64±4
Total Uranium (mg/kg)	228.0	250.0
TCLP METALS (mg/L)		
Arsenic	<0.5	<0.5
Barium	0.54(B)	0.86(B)
Cadmium	<0.02	<0.02
Chromium	<0.03	<0.03
Lead	<0.3	<0.3
Mercury	<0.001	<0.001
Selenium	<0.5	<0.5
Silver	<0.1	<0.1

I = Nuclide identified by GAMANAL analysis of sample spectrum, but values did not exceed room background at the 95% confidence level; no value reported.

TABLE C-9
SOLID WASTE LANDFILL
RI/FS SEDIMENT RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	ASIT-021		
SAMPLE NUMBER	009100		
SAMPLING DATE	07/11/88		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
GROSS ALPHA	15.000	pc ⁱ /g	NV
GROSS BETA	78.000	pc ⁱ /g	NV
RA-226	0.800	pc ⁱ /g	J
RA-228	1.000	pc ⁱ /g	J
U-TOTAL	24.000	mg/kg	

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TABLE C-9
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SD-01 111328			SWL-SD-02 111325		
SAMPLING DATE	04/08/93			04/06/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.100	pc ⁱ /g	UJ	0.100	pc ⁱ /g	UJ
GROSS ALPHA	27.700	pc ⁱ /g	-	15.300	pc ⁱ /g	-
GROSS BETA	26.900	pc ⁱ /g	-	16.300	pc ⁱ /g	-
NP-237	0.620	pc ⁱ /g	N	0.040	pc ⁱ /g	UJ
PU-238	0.036	pc ⁱ /g	J	0.050	pc ⁱ /g	UJ
PU-239/240	0.039	pc ⁱ /g	J	0.040	pc ⁱ /g	UJ
RA-226	0.970	pc ⁱ /g	-	0.900	pc ⁱ /g	-
RA-228	0.750	pc ⁱ /g	J	1.070	pc ⁱ /g	-
RU-106	0.720	pc ⁱ /g	J	0.730	pc ⁱ /g	UJ
SR-90	0.990	pc ⁱ /g	J	0.590	pc ⁱ /g	-
TC-99	0.410	pc ⁱ /g	UJ	0.370	pc ⁱ /g	UJ
TH-228	0.730	pc ⁱ /g	-	0.920	pc ⁱ /g	R
TH-230	1.050	pc ⁱ /g	-	1.170	pc ⁱ /g	R
TH-232	0.570	pc ⁱ /g	J	1.000	pc ⁱ /g	R
TH-TOTAL	5.200	ug/g	-	9.140	ug/g	R
U-234	3.660	pc ⁱ /g	-	4.180	pc ⁱ /g	J
U-235/236	0.250	pc ⁱ /g	J	0.030	pc ⁱ /g	UJ
U-238	4.560	pc ⁱ /g	-	6.800	pc ⁱ /g	-
U-TOTAL	14.700	mg/kg	-	22.600	mg/kg	-

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D256

TABLE C-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SD-02 111325			SWL-SD-01 111328				
SAMPLING DATE	04/06/93			04/08/93				
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>								
Aluminum	8380.000	mg/kg	D	-	7010.000	mg/kg	C	-
Antimony	1.500	mg/kg	D	UJ	1.100	mg/kg	C	-
Arsenic	5.300	mg/kg	D	J	4.500	mg/kg	C	-
Barium	55.900	mg/kg	D	U	62.500	mg/kg	C	-
Beryllium	0.590	mg/kg	D	U	2.300	mg/kg	C	-
Cadmium	1.500	mg/kg	D	U	5.600	mg/kg	C	-
Calcium	105000.000	mg/kg	D	-	161000.000	mg/kg	C	-
Chromium	11.500	mg/kg	D	-	11.300	mg/kg	C	-
Cobalt	6.400	mg/kg	D	-	11.300	mg/kg	C	-
Copper	15.300	mg/kg	D	-	11.900	mg/kg	C	-
Cyanide	0.150	mg/kg	D	U	0.130	mg/kg	C	-
Iron	15400.000	mg/kg	D	-	13400.000	mg/kg	C	-
Lead	14.100	mg/kg	D	J	11.400	mg/kg	C	-
Magnesium	22500.000	mg/kg	D	-	26000.000	mg/kg	C	-
Manganese	424.000	mg/kg	D	U	1640.000	mg/kg	C	-
Mercury	0.080	mg/kg	D	U	0.100	mg/kg	C	-
Molybdenum	5.900	mg/kg	D	-	22.600	mg/kg	C	-
Nickel	16.400	mg/kg	D	-	22.600	mg/kg	C	-
Potassium	1100.000	mg/kg	D	-	1030.000	mg/kg	C	-
Selenium	0.590	mg/kg	D	U	0.520	mg/kg	C	-
Silicon	1280.000	mg/kg	D	-	1330.000	mg/kg	C	-
Silver	4.200	mg/kg	D	-	11.300	mg/kg	C	-
Sodium	158.000	mg/kg	D	-	346.000	mg/kg	C	-
Thallium	0.590	mg/kg	D	U	0.760	mg/kg	C	-
Vanadium	23.800	mg/kg	D	U	19.000	mg/kg	C	-
Zinc	45.700	mg/kg	D	-	72.600	mg/kg	C	-
<u>Volatile Organics</u>								
1,1,1-Trichloroethane	15.000	ug/kg	D	U	13.000	ug/kg	C	U
1,1,2,2-Tetrachloroethane	15.000	ug/kg	D	U	13.000	ug/kg	C	U
1,1,2-Trichloroethane	15.000	ug/kg	D	U	13.000	ug/kg	C	U
1,1-Dichloroethane	15.000	ug/kg	D	U	13.000	ug/kg	C	U
1,1-Dichloroethene	15.000	ug/kg	D	U	13.000	ug/kg	C	U
1,2-Dichloroethane	15.000	ug/kg	D	U	13.000	ug/kg	C	U
1,2-Dichloroethene	15.000	ug/kg	D	U	13.000	ug/kg	C	U
1,2-Dichloropropane	15.000	ug/kg	D	U	13.000	ug/kg	C	U
2-Butanone	15.000	ug/kg	D	JJ	13.000	ug/kg	C	U
2-Hexanone	15.000	ug/kg	D	JJ	13.000	ug/kg	C	U
4-Methyl-2-pentanone	15.000	ug/kg	D	JJ	13.000	ug/kg	C	U
Acetone	2.000	ug/kg	D	J	13.000	ug/kg	C	U
Benzene	15.000	ug/kg	D	U	13.000	ug/kg	C	U

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TABLE C-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SD-02 111325	SWL-SD-01 111328
SAMPLING DATE	04/06/93	04/08/93
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Volatile Organics</u>		
Bromodichloromethane	15.000 ug/kg D U	13.000 ug/kg C U
Bromoform	15.000 ug/kg D U	13.000 ug/kg C U
Bromomethane	15.000 ug/kg D U	13.000 ug/kg C U
Carbon Tetrachloride	15.000 ug/kg D U	13.000 ug/kg C U
Carbon disulfide	15.000 ug/kg D U	13.000 ug/kg C U
Chlorobenzene	15.000 ug/kg D U	13.000 ug/kg C U
Chloroethane	15.000 ug/kg D U	13.000 ug/kg C U
Chloroform	15.000 ug/kg D U	13.000 ug/kg C U
Chloromethane	15.000 ug/kg D U	13.000 ug/kg C U
Dibromochloromethane	15.000 ug/kg D U	13.000 ug/kg C U
Ethylbenzene	15.000 ug/kg D U	13.000 ug/kg C U
Methylene chloride	15.000 ug/kg D U	13.000 ug/kg C U
Styrene	15.000 ug/kg D U	13.000 ug/kg C U
Tetrachloroethene	15.000 ug/kg D U	13.000 ug/kg C U
Toluene	15.000 ug/kg D U	13.000 ug/kg C U
Trichloroethene	15.000 ug/kg D U	13.000 ug/kg C U
Vinyl Acetate	15.000 ug/kg D U	13.000 ug/kg C U
Vinyl chloride	15.000 ug/kg D U	13.000 ug/kg C U
Xylenes, Total	15.000 ug/kg D U	13.000 ug/kg C U
cis-1,3-Dichloropropene	15.000 ug/kg D U	13.000 ug/kg C U
trans-1,3-Dichloropropene	15.000 ug/kg D U	13.000 ug/kg C U
<u>Semivolatile Organics</u>		
1,2,4-Trichlorobenzene	500.000 ug/kg D U	450.000 ug/kg C U
1,2-Dichlorobenzene	500.000 ug/kg D U	450.000 ug/kg C U
1,3-Dichlorobenzene	500.000 ug/kg D U	450.000 ug/kg C U
1,4-Dichlorobenzene	500.000 ug/kg D U	450.000 ug/kg C U
2,4,5-Trichlorophenol	1200.000 ug/kg D U	1100.000 ug/kg C U
2,4,6-Trichlorophenol	500.000 ug/kg D U	450.000 ug/kg C U
2,4-Dichlorophenol	500.000 ug/kg D U	450.000 ug/kg C U
2,4-Dimethylphenol	500.000 ug/kg D U	450.000 ug/kg C U
2,4-Dinitrophenol	1200.000 ug/kg D U	1100.000 ug/kg C U
2,4-Dinitrotoluene	500.000 ug/kg D U	450.000 ug/kg C U
2,6-Dinitrotoluene	500.000 ug/kg D U	450.000 ug/kg C U
2-Chloronaphthalene	500.000 ug/kg D U	450.000 ug/kg C U
2-Chlorophenol	500.000 ug/kg D U	450.000 ug/kg C U
2-Methylnaphthalene	500.000 ug/kg D U	450.000 ug/kg C U
2-Methylphenol	500.000 ug/kg D U	450.000 ug/kg C U
2-Nitroaniline	1200.000 ug/kg D U	1100.000 ug/kg C U
2-Nitrophenol	500.000 ug/kg D U	450.000 ug/kg C U
3,3'-Dichlorobenzidine	500.000 ug/kg D U	450.000 ug/kg C U

TABLE C-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SD-02 111325	SWL-SD-01 111328	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>										
3-Nitroaniline	1200.000	ug/kg	D	U			1100.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	1200.000	ug/kg	D	U			1100.000	ug/kg	C	U
4-Bromophenyl phenyl ether	500.000	ug/kg	D	U			450.000	ug/kg	C	U
4-Chloro-3-methylphenol	500.000	ug/kg	D	U			450.000	ug/kg	C	U
4-Chlorophenylphenyl ether	500.000	ug/kg	D	U			450.000	ug/kg	C	U
4-Methylphenol	500.000	ug/kg	D	U			450.000	ug/kg	C	U
4-Nitroaniline	1200.000	ug/kg	D	U			1100.000	ug/kg	C	U
4-Nitrophenol	1200.000	ug/kg	D	U			1100.000	ug/kg	C	U
Acenaphthene	98.000	ug/kg	D	U			450.000	ug/kg	C	U
Acenaphthylene	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Anthracene	240.000	ug/kg	D	U			450.000	ug/kg	C	U
Benz(a)anthracene	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Benz(a)pyrene	550.000	ug/kg	D	U			450.000	ug/kg	C	U
Benz(b)fluoranthene	730.000	ug/kg	D	U			450.000	ug/kg	C	U
Benz(g,h,i)perylene	240.000	ug/kg	D	U			450.000	ug/kg	C	U
Benz(k)fluoranthene	270.000	ug/kg	D	U			450.000	ug/kg	C	U
Benzoic acid	2400.000	ug/kg	D	U			2200.000	ug/kg	C	U
Benzyl alcohol	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Butyl benzyl phthalate	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Carbazole	120.000	ug/kg	D	U			450.000	ug/kg	C	U
Chrysene	510.000	ug/kg	D	U			450.000	ug/kg	C	U
Di-n-butyl phthalate	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Di-n-octyl phthalate	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Dibenz(a,h)anthracene	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Dibenzofuran	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Diethyl phthalate	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Dimethyl phthalate	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Fluoranthene	1400.000	ug/kg	D	U			450.000	ug/kg	C	U
Fluorene	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Hexachlorobenzene	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Hexachlorobutadiene	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Hexachlorocyclopentadiene	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Hexachloroethane	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	310.000	ug/kg	D	U			450.000	ug/kg	C	U
Isophorone	500.000	ug/kg	D	U			450.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	500.000	ug/kg	D	U			450.000	ug/kg	C	U
N-Nitrosodiphenylamine	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Naphthalene	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Nitrobenzene	500.000	ug/kg	D	U			450.000	ug/kg	C	U
Pentachlorophenol	1200.000	ug/kg	D	U			1100.000	ug/kg	C	U
Phenanthrene	1000.000	ug/kg	D	U			450.000	ug/kg	C	U
Phenol	500.000	ug/kg	D	U			450.000	ug/kg	C	U

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TABLE C-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SD-02	SAMPLE NUMBER	SWL-SD-01	
SAMPLE NUMBER	111325		111328	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>				
Pyrene	990.000	ug/kg D -	58.000	ug/kg C J
bis(2-Chloroethoxy)methane	500.000	ug/kg D C	450.000	ug/kg C J
bis(2-Chloroethyl)ether	500.000	ug/kg D C	450.000	ug/kg C J
bis(2-Chloroisopropyl) ether	500.000	ug/kg D C	450.000	ug/kg C J
bis(2-Ethylhexyl) phthalate	53.000	ug/kg D C	450.000	ug/kg C J
p-Chloroaniline	500.000	ug/kg D U	450.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>				
4,4'-DDD	5.000	ug/kg D UJ	4.500	ug/kg C UJ
4,4'-DDE	5.000	ug/kg D C	4.500	ug/kg C C
4,4'-DDT	5.000	ug/kg D C	4.500	ug/kg C C
Aldrin	2.600	ug/kg D C	2.300	ug/kg C C
Aroclor-1016	50.000	ug/kg D C	45.000	ug/kg C C
Aroclor-1221	100.000	ug/kg D C	91.000	ug/kg C C
Aroclor-1232	50.000	ug/kg D C	45.000	ug/kg C C
Aroclor-1242	50.000	ug/kg D C	45.000	ug/kg C C
Aroclor-1248	50.000	ug/kg D C	45.000	ug/kg C C
Aroclor-1254	50.000	ug/kg D C	45.000	ug/kg C C
Aroclor-1260	50.000	ug/kg D C	45.000	ug/kg C C
Dieldrin	5.000	ug/kg D C	4.500	ug/kg C C
Endosulfan II	5.000	ug/kg D C	4.500	ug/kg C C
Endosulfan sulfate	5.000	ug/kg D C	4.500	ug/kg C C
Endosulfan-I	2.600	ug/kg D C	2.300	ug/kg C C
Endrin	5.000	ug/kg D C	4.500	ug/kg C C
Endrin aldehyde	5.000	ug/kg D C	4.500	ug/kg C C
Endrin ketone	5.000	ug/kg D C	4.500	ug/kg C C
Heptachlor	2.600	ug/kg D C	2.300	ug/kg C C
Heptachlor epoxide	2.600	ug/kg D C	2.300	ug/kg C C
Methoxychlor	26.000	ug/kg D U	23.000	ug/kg C C
Toxaphene	260.000	ug/kg D C	230.000	ug/kg C C
alpha-BHC	2.600	ug/kg D C	2.300	ug/kg C C
alpha-Chlordane	2.600	ug/kg D C	2.300	ug/kg C C
beta-BHC	2.600	ug/kg D C	2.300	ug/kg C C
delta-BHC	2.600	ug/kg D C	2.300	ug/kg C C
gamma-BHC (Lindane)	2.600	ug/kg D U	2.300	ug/kg C U
gamma-Chlordane	2.600	ug/kg D U	2.300	ug/kg C U

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TABLE C-10
SOLID WASTE LANDFILL
CIS SEDIMENT RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE ID: FMP-SD-21-009
 EAST COORDINATE (FEET): 1379613.08
 NORTH COORDINATE (FEET): 482250.46
 SAMPLE DEPTH: 0.0 to 0.80 FEET

Radionuclide ^a	Qualifier ^b	Activity Concentration	Uncertainty
Cesium-137	<	0.20	
Neptunium-237	<	0.10	
Lead-210			
Plutonium-238		0.30	.10
Plutonium-239/240	<	0.10	
Radium-226		1.31	0.49
Radium-228			
Ruthenium-106	<	2.00	
Strontium-90	<	0.30	
Technetium-99	<	0.30	
Thorium-228		1.20	.30
Thorium-230		5.00	.70
Thorium-232		1.00	.40
Uranium-234		12.00	1.00
Urnium-235		0.50	.20
Uranium-238		23.00	1.00

^aRA-226 when reported, were measured by gamma spectrometry and reported on a dry weight basis.

^bQualifiers are from the laboratory. No validation qualifiers were available. < = less than.

TABLE C-11
SOLID WASTE LANDFILL
RI/FS SURFACE WATER RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	ASIT-021 001160				ASIT-021 001161			
SAMPLING DATE	02/21/89				02/21/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	FILT	20.000	pCi/L	R		NA		
NP-237	FILT	1.000	pCi/L	U		NA		
NP-237		NA			UNKN	1.000	pCi/L	U
PU-238	FILT	1.000	pCi/L	U		NA	1.000	pCi/L
PU-238	FILT	1.000	pCi/L	U	UNKN	1.000	pCi/L	UJ
PU-239/240	FILT	NA			UNKN	1.000	pCi/L	UJ
PU-239/240	FILT	1.000	pCi/L	U		NA	1.000	pCi/L
RA-226	FILT	1.000	pCi/L	U		NA	1.000	pCi/L
RA-226		NA			UNKN	1.000	pCi/L	U
RA-228	FILT	3.000	pCi/L	UJ		NA	3.000	pCi/L
RA-228		NA			UNKN	3.000	pCi/L	UJ
RU-106	FILT	150.000	pCi/L	R		NA		
SR-90	FILT	5.000	pCi/L	U		NA		
SR-90		NA			UNKN	5.000	pCi/L	U
TC-99	FILT	30.000	pCi/L	UJ		NA	30.000	pCi/L
TC-99		NA			UNKN	30.000	pCi/L	UJ
TH-228	FILT	1.000	pCi/L	U		NA	1.000	pCi/L
TH-228		NA			UNKN	1.000	pCi/L	U
TH-230	FILT	1.000	pCi/L	U		NA	1.000	pCi/L
TH-230		NA			UNKN	1.000	pCi/L	U
TH-232	FILT	1.000	pCi/L	U		NA	1.000	pCi/L
TH-232		NA			UNKN	1.000	pCi/L	U
U-234	FILT	7.300	pCi/L	-		NA	6.100	pCi/L
U-234		NA			UNKN	6.100	pCi/L	J
U-235/236	FILT	1.000	pCi/L	U		NA	1.000	pCi/L
U-235/236		NA			UNKN	1.000	pCi/L	UJ
U-238	FILT	13.700	pCi/L	-		NA	9.700	pCi/L
U-238		NA			UNKN	9.700	pCi/L	J
U-TOTAL	FILT	42.000	ug/L	-		NA	26.000	ug/L
U-TOTAL		NA			UNKN	26.000	ug/L	-

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TABLE C-11
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER		ASIT-021 001161				
SAMPLING DATE		02/21/89				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>						
Aluminum	UNKN	0.161	mg/L			
Antimony	UNKN	0.002	mg/L			
Arsenic	UNKN	0.002	mg/L			
Barium	UNKN	0.063	mg/L			
Beryllium	UNKN	0.002	mg/L			
Cadmium	UNKN	0.006	mg/L			
Calcium	UNKN	47.000	mg/L			
Chromium	UNKN	0.018	mg/L			
Cobalt	UNKN	0.014	mg/L			
Copper	UNKN	0.016	mg/L			
Cyanide	UNKN	0.010	mg/L			
Iron	UNKN	0.087	mg/L			
Lead	UNKN	0.002	mg/L			
Magnesium	UNKN	10.700	mg/L			
Manganese	UNKN	0.065	mg/L			
Mercury	UNKN	0.000	mg/L			
Molybdenum	UNKN	0.023	mg/L			
Nickel	UNKN	0.016	mg/L			
Potassium	UNKN	2.020	mg/L			
Selenium	UNKN	0.002	mg/L			
Silver	UNKN	0.001	mg/L			
Sodium	UNKN	4.960	mg/L			
Thallium	UNKN	0.004	mg/L			
Vanadium	UNKN	0.019	mg/L			
Zinc	UNKN	0.032	mg/L			
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	UNFI	5.000	ug/L	C	C	
1,1,2-Tetrachloroethane	UNFI	5.000	ug/L	C	C	
1,1,2-Trichloroethane	UNFI	5.000	ug/L	C	C	
1,1-Dichloroethane	UNFI	5.000	ug/L	C	C	
1,1-Dichloroethene	UNFI	5.000	ug/L	C	C	
1,2-Dichloroethane	UNFI	5.000	ug/L	C	C	
1,2-Dichloroethene	UNFI	5.000	ug/L	C	C	
1,2-Dichloropropane	UNFI	5.000	ug/L	C	C	
2-Butanone	UNFI	10.000	ug/L	C	C	
2-Hexanone	UNFI	10.000	ug/L	C	C	
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	C	
Acetone	UNFI	2.000	ug/L	C	C	
Benzene	UNFI	5.000	ug/L	C	C	
Bromodichloromethane	UNFI	5.000	ug/L	C	C	

TABLE C-11
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER		ASIT-021 001161				
SAMPLING DATE		02/21/89				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	
<u>Volatile Organics</u>						
Bromoform	UNFI	5.000	ug/L	C	UJ	
Bromomethane	UNFI	10.000	ug/L	C	UJ	
Carbon Tetrachloride	UNFI	5.000	ug/L	C	UJ	
Carbon disulfide	UNFI	5.000	ug/L	C	UJ	
Chlorobenzene	UNFI	5.000	ug/L	C	UJ	
Chloroethane	UNFI	10.000	ug/L	C	UJ	
Chloroform	UNFI	5.000	ug/L	C	UJ	
Chloromethane	UNFI	10.000	ug/L	C	UJ	
Dibromochloromethane	UNFI	5.000	ug/L	C	UJ	
Ethylbenzene	UNFI	5.000	ug/L	C	R	
Methylene chloride	UNFI	5.000	ug/L	C	R	
Styrene	UNFI	5.000	ug/L	C	R	
Tetrachloroethene	UNFI	5.000	ug/L	C	R	
Toluene	UNFI	5.000	ug/L	C	R	
Trichloroethene	UNFI	5.000	ug/L	C	R	
Vinyl Acetate	UNFI	10.000	ug/L	C	R	
Vinyl chloride	UNFI	10.000	ug/L	C	R	
Kylenes, Total	UNFI	5.000	ug/L	C	R	
cis-1,3-Dichloropropene	UNFI	5.000	ug/L	C	UJ	
trans-1,3-Dichloropropene	UNFI	5.000	ug/L	C	UJ	
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	UJ	
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	UJ	
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	UJ	
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	UJ	
2,4,5-Trichlorophenol	UNFI	50.000	ug/L	C	UJ	
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	UJ	
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	UJ	
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	UJ	
2,4-Dinitrophenol	UNFI	50.000	ug/L	C	UJ	
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	UJ	
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	UJ	
2-Chloronaphthalene	UNFI	10.000	ug/L	C	UJ	
2-Chlorophenol	UNFI	10.000	ug/L	C	UJ	
2-Methylnaphthalene	UNFI	10.000	ug/L	C	UJ	
2-Methylphenol	UNFI	10.000	ug/L	C	UJ	
2-Nitroaniline	UNFI	50.000	ug/L	C	UJ	
2-Nitrophenol	UNFI	10.000	ug/L	C	UJ	
3,3'-Dichlorobenzidine	UNFI	20.000	ug/L	C	UJ	
3-Nitroaniline	UNFI	50.000	ug/L	C	R	

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TABLE C-11
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER		ASIT-021			
SAMPLE NUMBER		001161			
SAMPLING DATE		02/21/89			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>					
4,6-Dinitro-2-methylphenol	UNFI	50.000	ug/L	C	U
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	CCC	CCC
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	CCC	CCC
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	CCC	CCC
4-Methylphenol	UNFI	10.000	ug/L	CCC	CCC
4-Nitroaniline	UNFI	50.000	ug/L	CCC	CCC
4-Nitrophenol	UNFI	50.000	ug/L	CCC	CCC
Acenaphthene	UNFI	10.000	ug/L	CCC	CCC
Acenaphthylene	UNFI	10.000	ug/L	CCC	CCC
Anthracene	UNFI	10.000	ug/L	CCC	CCC
Benzo(a)anthracene	UNFI	10.000	ug/L	CCC	CCC
Benzo(a)pyrene	UNFI	10.000	ug/L	CCC	CCC
Benzo(b)fluoranthene	UNFI	10.000	ug/L	CCC	CCC
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	CCC	CCC
Benzo(k)fluoranthene	UNFI	10.000	ug/L	CCC	CCC
Benzoic acid	UNFI	50.000	ug/L	CCC	CCC
Benzyl alcohol	UNFI	10.000	ug/L	CCC	CCC
Butyl benzyl phthalate	UNFI	10.000	ug/L	CCC	CCC
Chrysene	UNFI	10.000	ug/L	CCC	CCC
Di-n-butyl phthalate	UNFI	3.000	ug/L	CCC	CCC
Di-n-octyl phthalate	UNFI	10.000	ug/L	CCC	CCC
Dibenz(a,h)anthracene	UNFI	10.000	ug/L	CCC	CCC
Dibenzofuran	UNFI	10.000	ug/L	CCC	CCC
Diethyl phthalate	UNFI	3.000	ug/L	CCC	CCC
Dimethyl phthalate	UNFI	10.000	ug/L	CCC	CCC
Fluoranthene	UNFI	10.000	ug/L	CCC	CCC
Fluorene	UNFI	10.000	ug/L	CCC	CCC
Hexachlorobenzene	UNFI	10.000	ug/L	CCC	CCC
Hexachlorobutadiene	UNFI	10.000	ug/L	CCC	CCC
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	CCC	CCC
Hexachloroethane	UNFI	10.000	ug/L	CCC	CCC
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	CCC	CCC
Isophorone	UNFI	10.000	ug/L	CCC	CCC
Methyl parathion	UNKN	250.000	ug/L	CCC	CCC
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	CCC	CCC
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	CCC	CCC
Naphthalene	UNFI	10.000	ug/L	CCC	CCC
Nitrobenzene	UNFI	10.000	ug/L	CCC	CCC
Parathion	UNKN	250.000	ug/L	CCC	CCC
Pentachlorophenol	UNFI	50.000	ug/L	CCC	CCC
Phenanthrene	UNFI	10.000	ug/L	CCC	CCC
Phenol	UNFI	10.000	ug/L	C	U

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TABLE C-11
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER		ASIT-021				
SAMPLE NUMBER		001161				
SAMPLING DATE		02/21/89				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	
<u>Semivolatile Organics</u>						
Pyrene	UNFI	10.000	ug/L	C	U	
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	U	
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	U	
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	U	
bis(2-Ethylhexyl) phthalate	UNFI	4.000	ug/L	C	JB	
p-Chloroaniline	UNFI	10.000	ug/L	C	R	
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	UNFI	0.100	ug/L	C	U	
4,4'-DDE	UNFI	0.100	ug/L	C	U	
4,4'-DDT	UNFI	0.100	ug/L	C	U	
Aldrin	UNFI	0.050	ug/L	C	U	
Aroclor-1016	UNFI	0.500	ug/L	C	U	
Aroclor-1221	UNFI	0.500	ug/L	C	U	
Aroclor-1232	UNFI	0.500	ug/L	C	U	
Aroclor-1242	UNFI	0.500	ug/L	C	U	
Aroclor-1248	UNFI	0.500	ug/L	C	U	
Aroclor-1254	UNFI	1.000	ug/L	C	U	
Aroclor-1260	UNFI	1.000	ug/L	C	U	
Azinphosmethyl	UNKN	500.000	ug/L	C	U	
Demeton	UNKN	250.000	ug/L	C	U	
Diazinon	UNKN	250.000	ug/L	C	U	
Dieldrin	UNFI	0.100	ug/L	C	U	
Disulfoton	UNKN	250.000	ug/L	C	U	
Endosulfan II	UNFI	0.100	ug/L	C	U	
Endosulfan sulfate	UNFI	0.100	ug/L	C	U	
Endosulfan-I	UNFI	0.050	ug/L	C	U	
Endrin	UNFI	0.100	ug/L	C	U	
Endrin ketone	UNFI	0.100	ug/L	C	U	
Ethion	UNKN	250.000	ug/L	C	U	
Heptachlor	UNFI	0.050	ug/L	C	U	
Heptachlor epoxide	UNFI	0.050	ug/L	C	U	
Malathion	UNKN	250.000	ug/L	C	U	
Methoxychlor	UNFI	0.500	ug/L	C	U	
Toxaphene	UNFI	1.000	ug/L	C	U	
alpha-BHC	UNFI	0.050	ug/L	C	U	
alpha-Chlordane	UNFI	0.500	ug/L	C	U	
beta-BHC	UNFI	0.050	ug/L	C	U	
delta-BHC	UNFI	0.050	ug/L	C	U	
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U	
gamma-Chlordane	UNFI	0.500	ug/L	C	U	

TABLE C-11
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	ASIT-021 001161				
SAMPLING DATE	02/21/89				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>					
Ammonia	UNFI	0.100	mg/L	C	U
Chloride	UNFI	12.000	mg/L	C	-
Fluoride	UNFI	0.140	mg/L	C	-
Nitrate	UNFI	1.800	mg/L	C	-
Phenols	UNFI	0.010	mg/L	C	-
Phosphorus	UNFI	0.270	mg/L	C	-
Sulfate	UNFI	36.800	mg/L	C	-
Total Kjeldahl Nitrogen	UNFI	1.028	mg/L	C	-
Total Organic Halides	UNFI	0.019	mg/L	C	-
Total Organic Nitrogen	UNFI	1.030	mg/L	C	-

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TABLE C-11
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SW-01 111289				SWL-SW-02 111291			
SAMPLING DATE	04/07/93				04/06/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	15.300	pCi/L	UJ	UNFI	15.800	pCi/L	UJ
GROSS ALPHA	UNFI	24.700	pCi/L	-	UNFI	32.900	pCi/L	-
GROSS BETA	UNFI	11.800	pCi/L	J	UNFI	11.500	pCi/L	J
NP-237	UNFI	0.493	pCi/L	J	UNFI	0.288	pCi/L	J
PU-238	UNFI	0.196	pCi/L	J	UNFI	0.035	pCi/L	J
PU-239/240	UNFI	0.150	pCi/L	JJ	UNFI	0.031	pCi/L	JJ
RA-226	UNFI	0.141	pCi/L	JJ	UNFI	0.139	pCi/L	JJ
RA-228	UNFI	1.440	pCi/L	JJ	UNFI	1.210	pCi/L	JJ
RU-106	UNFI	107.000	pCi/L	JJ	UNFI	111.000	pCi/L	JJ
SR-90	UNFI	0.580	pCi/L	JJ	UNFI	0.744	pCi/L	JJ
TC-99	UNFI	12.600	pCi/L	JJ	UNFI	12.900	pCi/L	JJ
TH-228	UNFI	0.362	pCi/L	R	UNFI	0.100	pCi/L	JJ
TH-230	UNFI	0.127	pCi/L	R	UNFI	0.121	pCi/L	JJ
TH-232	UNFI	0.114	pCi/L	R	UNFI	0.151	pCi/L	JJ
TH-TOTAL	UNFI	1.050	ug/L	R	UNFI	1.390	ug/L	JJ
U-234	UNFI	17.200	pCi/L	-	UNFI	17.100	pCi/L	-
U-235/236	UNFI	1.300	pCi/L	-	UNFI	0.846	pCi/L	J
U-238	UNFI	18.700	pCi/L	-	UNFI	20.200	pCi/L	-
U-TOTAL	UNFI	46.100	ug/L	-	UNFI	59.300	ug/L	-

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TABLE C-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SW-01 111289				SWL-SW-02 111291			
SAMPLING DATE	04/07/93				04/06/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>								
Aluminum	UNFI	NA	mg/L	C -	FILT	0.197	mg/L	D U
Aluminum		0.140						
Antimony	UNFI	NA	mg/L	C UJ	FILT	0.005	mg/L	D UJ
Antimony		0.005						
Arsenic	UNFI	NA	mg/L	C U	FILT	0.002	mg/L	D U
Arsenic		0.002						
Barium	UNFI	NA	mg/L	C -	FILT	0.041	mg/L	D -
Barium		0.038						
Beryllium	UNFI	NA	mg/L	C -	FILT	0.002	mg/L	D U
Beryllium		0.002						
Cadmium	UNFI	NA	mg/L	C U	FILT	0.005	mg/L	D U
Cadmium		0.005						
Calcium	UNFI	NA	mg/L	C U	FILT	105.000	mg/L	D -
Calcium		92.500						
Chromium	UNFI	NA	mg/L	C -	FILT	0.010	mg/L	D U
Chromium		0.010						
Cobalt	UNFI	NA	mg/L	C U	FILT	0.010	mg/L	D U
Cobalt		0.010						
Copper	UNFI	NA	mg/L	C U	FILT	0.010	mg/L	D U
Copper		0.010						
Cyanide	UNFI	NA	mg/L	C -	UNFI	0.002	mg/L	D -
Cyanide		0.002						
Iron	UNFI	NA	mg/L	C U	FILT	0.020	mg/L	D U
Iron		0.020						
Lead	UNFI	NA	mg/L	C U	FILT	0.002	mg/L	D U
Lead		0.002						
Magnesium	UNFI	NA	mg/L	C U	FILT	25.700	mg/L	D -
Magnesium		23.500						
Manganese	UNFI	NA	mg/L	C -	FILT	0.185	mg/L	D -
Manganese		0.177						
Mercury	UNFI	NA	mg/L	C -	FILT	0.000	mg/L	D U
Mercury		0.000						
Molybdenum	UNFI	NA	mg/L	C U	FILT	0.020	mg/L	D U
Molybdenum		0.020						
Nickel	UNFI	NA	mg/L	C U	FILT	0.020	mg/L	D U
Nickel		0.020						
Potassium	UNFI	NA	mg/L	C U	FILT	0.869	mg/L	D -
Potassium		0.865						
Selenium	UNFI	NA	mg/L	C -	FILT	0.002	mg/L	D U
Selenium		0.002						
Silicon	UNFI	NA	mg/L	C U	FILT	2.030	mg/L	D -
Silicon		1.910						
Silver	UNFI	NA	mg/L	C -	FILT	0.010	mg/L	D U

TABLE C-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SW-01 111289				SWL-SW-02 111291			
SAMPLING DATE	04/07/93				04/06/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>								
Silver	UNFI	0.010	mg/L	C U	FILT	NA	13.000	mg/L D -
Sodium	UNFI	NA	mg/L	C -	FILT	NA	0.002	mg/L D U
Sodium	UNFI	11.300	mg/L	C -	FILT	NA	0.010	mg/L D U
Thallium	UNFI	NA	mg/L	C U	FILT	NA	0.002	mg/L D U
Thallium	UNFI	0.002	mg/L	C U	FILT	NA	0.010	mg/L D U
Vanadium	UNFI	NA	mg/L	C U	FILT	NA	0.005	mg/L D U
Vanadium	UNFI	0.010	mg/L	C U	FILT	NA	0.010	mg/L D U
Zinc	UNFI	NA	mg/L	C U	FILT	NA	0.005	mg/L D U
Zinc	UNFI	0.005	mg/L	C U	FILT	NA	0.005	mg/L D U
<u>Volatile Organics</u>								
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
1,1-Dichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
1,1-Dichloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
1,2-Dichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
1,2-Dichloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
1,2-Dichloropropane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2-Butanone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2-Hexanone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Acetone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Benzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Bromodichloromethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Bromoform	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Bromomethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Carbon Tetrachloride	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Carbon disulfide	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Chlorobenzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Chloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Chloroform	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Chloromethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Dibromochloromethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Ethylbenzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Methylene chloride	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Styrene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Tetrachloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Toluene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Trichloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Vinyl Acetate	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SW-01 111289				SWL-SW-02 111291			
SAMPLING DATE	04/07/93				04/06/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>								
Vinyl chloride	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Xylenes, Total	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
<u>Semivolatile Organics</u>								
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C UJ	UNFI	10.000	ug/L	D UJ
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C U	UNFI	25.000	ug/L	D U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2,4-Dinitrophenol	UNFI	25.000	ug/L	C U	UNFI	25.000	ug/L	D U
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2-Chloronaphthalene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2-Chlorophenol	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2-Methylnaphthalene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2-Methylphenol	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
2-Nitroaniline	UNFI	25.000	ug/L	C U	UNFI	25.000	ug/L	D U
2-Nitrophenol	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
3-Nitroaniline	UNFI	25.000	ug/L	C U	UNFI	25.000	ug/L	D U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C U	UNFI	25.000	ug/L	D U
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
4-Methylphenol	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
4-Nitroaniline	UNFI	25.000	ug/L	C U	UNFI	25.000	ug/L	D U
4-Nitrophenol	UNFI	25.000	ug/L	C U	UNFI	25.000	ug/L	D U
Acenaphthene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Acenaphthylene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Anthracene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Benzo(a)anthracene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Benzo(a)pyrene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U
Benzoic acid	UNFI	50.000	ug/L	C U	UNFI	50.000	ug/L	D U

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TABLE C-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	SWL-SW-01 111289				SWL-SW-02 111291					
SAMPLING DATE	04/07/93				04/06/93					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>										
Benzyl alcohol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Carbazole	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Chrysene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Di-n-butyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Di-n-octyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Dibenzofuran	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Diethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Dimethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Fluorene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Hexachlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Hexachlorobutadiene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Hexachloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Isophorone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Naphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Nitrobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Pentachlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U
Phenanthrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Phenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
bis(2-Ethylhexyl) phthalate	UNFI	1.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
p-Chloroaniline	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
<u>Pesticide Organics/PCBs</u>										
4,4'-DDD	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	U
4,4'-DDE	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	U
4,4'-DDT	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	U
Aldrin	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	D	U
Aroclor-1016	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	D	U
Aroclor-1221	UNFI	2.000	ug/L	C	U	UNFI	2.000	ug/L	D	U
Aroclor-1232	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	D	U
Aroclor-1242	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	D	U

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TABLE C-11
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	SWL-SW-01				SWL-SW-02			
SAMPLE NUMBER	111289				111291			
SAMPLING DATE	04/07/93				04/06/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS
<u>Pesticide Organics/PCBs</u>								
Aroclor-1248	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L
Aroclor-1254	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L
Aroclor-1260	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L
Dieldrin	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L
Endosulfan II	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L
Endosulfan sulfate	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L
Endosulfan-I	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L
Endrin	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L
Endrin aldehyde	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L
Endrin ketone	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L
Heptachlor	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L
Heptachlor epoxide	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L
Methoxychlor	UNFI	0.500	ug/L	C	U	UNFI	0.500	ug/L
Toxaphene	UNFI	5.000	ug/L	C	U	UNFI	5.000	ug/L
alpha-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L
alpha-Chlordane	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L
beta-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L
delta-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L
gamma-Chlordane	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L
<u>General Chemistry</u>								
Alkalinity	UNFI	276.500	mg/L	B	-	UNFI	276.000	mg/L
Ammonia	UNFI	0.100	mg/L	B	-	UNFI	0.100	mg/L
Chloride	UNFI	17.100	mg/L	B	-	UNFI	24.600	mg/L
Fluoride	UNFI	0.190	mg/L	B	-	UNFI	0.220	mg/L
Nitrate	UNFI	2.340	mg/L	B	-	UNFI	21.800	mg/L
Phenols	UNFI	0.010	mg/L	B	-	UNFI	0.010	mg/L
Sulfate	UNFI	2.000	mg/L	B	-	UNFI	61.010	mg/L
Sulfide	UNFI	1.010	mg/L	B	-	UNFI	0.500	mg/L
Total Kjeldahl Nitrogen	UNFI	0.230	mg/L	B	-	UNFI	0.200	mg/L
Total Organic Carbon	UNFI	2.800	mg/L	B	-	UNFI	2.700	mg/L
Total Organic Halides	UNFI	0.010	mg/L	B	-	UNFI	0.010	mg/L
Total Organic Nitrogen	UNFI	0.230	mg/L	B	-	UNFI	0.200	mg/L
Total Phosphorous	UNFI	0.040	mg/L	B	-	UNFI	0.030	mg/L

C-11-12

TABLE C-12A
SOLID WASTE LANDFILL
RI/FS GROUNDWATER RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1035 066826			1035 003931			1035 003245					
SAMPLING DATE	01/06/90			02/05/89			05/25/88					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	-
PU-238		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	-
PU-239/240		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	-
RA-226		NA			*U	1.000	pCi/L	UJ	*U	2.000	pCi/L	-
RA-228		NA			*U	3.000	pCi/L	UJ	*U	5.000	pCi/L	-
RU-106		NA			*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90		NA			*U	5.000	pCi/L	U	*U	5.000	pCi/L	-
TC-99		NA			*U	30.000	pCi/L	UJ	*U	30.000	pCi/L	U
TC-99	UNKN	30.000	pCi/L	U		NA				NA		
TH-228		NA			*U	1.000	pCi/L	U	*U	4.000	pCi/L	-
TH-228	UNKN	1.940	pCi/L	-		NA				NA		
TH-230		NA			*U	1.000	pCi/L	U	*U	4.600	pCi/L	-
TH-230	UNKN	2.030	pCi/L	J		NA				NA		
TH-232		NA			*U	1.000	pCi/L	U	*U	2.600	pCi/L	-
TH-TOTAL		NA			*U	3.000	ug/L	U		NA		
U-234		NA			*U	1.000	pCi/L	U	*U	4.600	pCi/L	-
U-234	UNKN	1.640	pCi/L	R		NA				NA		
U-235	UNKN	1.000	pCi/L	U		NA				NA		
U-235/236		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-238		NA			*U	1.000	pCi/L	U	*U	3.900	pCi/L	-
U-238	UNKN	2.880	pCi/L	-		NA				NA		
U-TOTAL		NA			*U	3.000	ug/L	-	*U	17.000	ug/L	-
U-TOTAL	UNKN	8.190	ug/L	J		NA				NA		

C-12-1

TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1035			1038		
	003560			003947		
SAMPLING DATE	08/11/88			11/15/88		
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS
CS-137	*	20.000	pc ⁻¹ /L	R	*	20.000
NP-237	*	1.000	pc ⁻¹ /L	U	*	1.000
PU-238	*	1.000	pc ⁻¹ /L	U	*	1.000
PU-239/240	*	1.000	pc ⁻¹ /L	U	*	1.000
RA-226	*	1.000	pc ⁻¹ /L	U	*	1.000
RA-228	*	3.000	pc ⁻¹ /L	U	*	3.000
RU-106	*	150.000	pc ⁻¹ /L	R	*	150.000
SR-90	*	5.000	pc ⁻¹ /L	R	*	5.000
TC-99	*	30.000	pc ⁻¹ /L	U	*	30.000
TH-228	*	1.000	pc ⁻¹ /L	U	*	1.000
TH-230	*	1.000	pc ⁻¹ /L	U	*	1.000
TH-232	*	1.000	pc ⁻¹ /L	U	*	1.000
TH-TOTAL	*	3.000	ug/L	U	*	3.000
U-234	*	1.000	pc ⁻¹ /L	U	*	1.000
U-235/236	*	1.000	pc ⁻¹ /L	U	*	1.000
U-238	*	2.000	ug/L	U	*	2.000
U-TOTAL	*	*	*	*	*	*

C-12-2

TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1038 003183				1038 066431				1038 066495			
SAMPLING DATE	05/11/88				06/18/89				08/13/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R		NA				NA		
NP-237	*U	1.000	pCi/L	U		NA				NA		
PU-238	*U	1.000	pCi/L	U		NA				NA		
PU-239/240	*U	1.000	pCi/L	U		NA				NA		
RA-226	*U	1.000	pCi/L	U		NA				NA		
RA-228	*U	3.000	pCi/L	U		NA				NA		
RU-106	*U	150.000	pCi/L	R		NA				NA		
SR-90	*U	5.000	pCi/L	U		NA				NA		
TC-99	*U	30.000	pCi/L	U		NA				NA		
TC-99		NA			UNKN	30.000	pCi/L	U	UNKN	30.000	pCi/L	U
TH-228	*U	1.000	pCi/L	U		NA				NA		
TH-228		NA			UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U
TH-230	*U	1.000	pCi/L	U		NA				NA		
TH-230		NA			UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U
TH-232	*U	1.000	pCi/L	U		NA				NA		
U-234	*U	1.700	pCi/L	-		NA				NA		
U-234		NA			UNKN	3.100	pCi/L	-	UNKN	1.700	pCi/L	J
U-235		NA				NA				NA		
U-235/236	*U	1.000	pCi/L	U		NA				NA		
U-235/236		NA			UNKN	1.000	pCi/L	U		NA		
U-238	*U	1.400	pCi/L	-		NA				NA		
U-238		NA			UNKN	2.000	pCi/L	-	UNKN	1.300	pCi/L	J
U-TOTAL	*U	5.000	ug/L	J		NA				NA		
U-TOTAL		NA			UNKN	5.000	ug/L	-	UNKN	4.000	ug/L	-

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0276

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TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1038 003518			1038 003762			1038 066666					
SAMPLING DATE	08/22/88			11/20/88			11/21/89					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	6.000	pCi/L	R		NA		
NP-237	*U	1.000	pCi/L	UJ	*U	0.200	pCi/L	UJ		NA		
PU-238	*U	1.000	pCi/L	U	*U	0.100	pCi/L	UJ		NA		
PU-239/240	*U	1.000	pCi/L	U	*U	0.100	pCi/L	UJ		NA		
RA-226	*U	1.000	pCi/L	UJ	*U	0.200	pCi/L	UJ		NA		
RA-228	*U	3.000	pCi/L	U	*U	2.300	pCi/L	UJ		NA		
RU-106	*U	150.000	pCi/L	R	*U	74.000	pCi/L	UJ		NA		
SR-90	*U	5.000	pCi/L	U	*U	1.200	pCi/L	UJ		NA		
TC-99	*U	30.000	pCi/L	U	*U	26.000	pCi/L	UJ		NA		
TC-99		NA				NA			UNKN	30.000	pCi/L	R
TH-228	*U	1.000	pCi/L	UJ	*U	0.500	pCi/L	UJ		NA		
TH-228		NA				NA			UNKN	4.400	pCi/L	R
TH-230	*U	1.000	pCi/L	UJ	*U	0.500	pCi/L	UJ		NA		
TH-230		NA				NA			UNKN	1.800	pCi/L	R
TH-232	*U	1.000	pCi/L	UJ	*U	0.500	pCi/L	UJ		NA		
TH-232		NA				NA			UNKN	3.800	pCi/L	R
TH-TOTAL	*U	5.000	ug/L	UJ	*U	5.000	ug/L	UJ		NA		
U-234	*U	1.900	pCi/L	J	*U	2.300	pCi/L	J		NA		
U-234		NA				NA			UNKN	6.900	pCi/L	R
U-235/236	*U	1.000	pCi/L	UJ	*U	0.500	pCi/L	UJ		NA		
U-235/236		NA				NA			UNKN	1.000	pCi/L	R
U-238	*U	1.400	pCi/L	J	*U	1.200	pCi/L	J		NA		
U-238		NA				NA			UNKN	5.900	pCi/L	R
U-TOTAL	*U	4.000	ug/L	-	*U	4.500	ug/L	J		NA		
U-TOTAL		NA				NA			UNKN	11.000	ug/L	R

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TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1719 047006			2027 003941			2027 003168					
SAMPLING DATE	06/09/92			03/08/89			05/09/88					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237		NA				1.000	pCi/L			1.000	pCi/L	
PU-238		NA				1.000	pCi/L			1.000	pCi/L	
PU-239/240		NA				1.000	pCi/L			1.000	pCi/L	
RA-226		NA				1.000	pCi/L			1.000	pCi/L	
RA-228		NA				3.000	pCi/L			1.600	pCi/L	
RU-106		NA				150.000	pCi/L			3.000	pCi/L	
SR-90		NA				5.000	pCi/L			150.000	pCi/L	
TC-99		NA				30.000	pCi/L			5.000	pCi/L	
TH-228		NA				1.000	pCi/L			30.000	pCi/L	
TH-230		NA				1.000	pCi/L			1.000	pCi/L	
TH-232		NA				1.000	pCi/L			1.000	pCi/L	
TH-TOTAL		NA				4.000	ug/L			NA	ug/L	
U-234		NA				3.300	pCi/L			1.600	pCi/L	
U-235/236		NA				1.000	pCi/L			1.000	pCi/L	
U-238		NA				2.400	pCi/L			2.000	pCi/L	
U-TOTAL		NA				7.000	ug/L			6.000	ug/L	
U-TOTAL	UNKN	2390.000	ug/L	NV		NA				NA		

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0278

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TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 066447			2027 003453			2027 003454 DUPLICATE 08/10/88					
SAMPLING DATE	06/27/89			08/10/88								
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
PU-238		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
PU-239/240		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
RA-226		NA			*U	1.200	pCi/L	-	*U	1.000	pCi/L	U
RA-228		NA			*U	3.000	pCi/L	U	*U	3.000	pCi/L	U
RU-106		NA			*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90		NA			*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
TC-99		NA			*U	30.000	pCi/L	U	*U	30.000	pCi/L	U
TC-99	UNKN	30.000	pCi/L	U		NA				NA		
TH-228		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
TH-228	UNKN	1.000	pCi/L	U		NA				NA		
TH-230		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
TH-230	UNKN	1.000	pCi/L	U		NA				NA		
TH-232		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
TH-TOTAL		NA			*U	4.000	ug/L	UJ	*U	5.000	ug/L	UJ
U-234		NA			*U	2.500	pCi/L	J	*U	2.200	pCi/L	J
U-234	UNKN	18.700	pCi/L	-		NA				NA		
U-235/236		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
U-235/236	UNKN	1.000	pCi/L	U		NA				NA		
U-238		NA			*U	2.300	pCi/L	J	*U	3.100	pCi/L	J
U-238	UNKN	15.400	pCi/L	-		NA				NA		
U-TOTAL		NA			*U	6.000	ug/L	-	*U	6.000	ug/L	-
U-TOTAL	UNKN	46.000	ug/L	-		NA				NA		

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TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 066580				2027 066581 DUPLICATE 09/10/89				2027 066708 11/16/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
TC-99	UNKN	30.000	pCi/L	U	UNKN	30.000	pCi/L	U	UNKN	30.000	pCi/L	U
TH-228	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U
TH-230	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U
U-234	UNKN	2.400	pCi/L	U	UNKN	7.900	pCi/L	U	UNKN	6.260	pCi/L	U
U-235/236	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U
U-238	UNKN	4.700	pCi/L	U	UNKN	6.300	pCi/L	U	UNKN	5.220	pCi/L	U
U-TOTAL	UNKN	20.000	ug/L	U	UNKN	20.000	ug/L	U	UNKN	13.000	ug/L	U

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0280

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TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 066742 DUPLICATE 11/16/89			2027 003731 12/01/88			2037 003917 02/22/89					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237		NA			*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U
PU-238		NA			*U	1.000	pCi/L	UU		1.000	pCi/L	U
PU-239/240		NA			*U	1.000	pCi/L	UU		1.000	pCi/L	U
RA-226		NA			*U	1.000	pCi/L	UU		1.000	pCi/L	UU
RA-228		NA			*U	3.000	pCi/L	UU		3.000	pCi/L	UU
RU-106		NA			*U	150.000	pCi/L	R		150.000	pCi/L	R
SR-90		NA			*U	5.000	pCi/L	UU		5.000	pCi/L	U
TC-99		NA			*U	30.000	pCi/L	U		30.000	pCi/L	UU
TC-99	UNKN	30.000	pCi/L	UU	NA				NA			
TH-228		NA			*U	1.000	pCi/L	UU	*U	1.000	pCi/L	U
TH-228	UNKN	1.000	pCi/L	U	NA	1.000	pCi/L	UU	*U	1.000	pCi/L	U
TH-230		NA			*U	NA			NA	1.000	pCi/L	U
TH-230	UNKN	1.000	pCi/L	U	NA	1.000	pCi/L	UU	*U	1.000	pCi/L	U
TH-232		NA			*U	11.000	ug/L	D	*U	1.000	pCi/L	U
TH-TOTAL		NA			*U	2.900	pCi/L	R	*U	3.000	ug/L	U
U-234	UNKN	5.960	pCi/L	J	NA	2.900	pCi/L	R	*U	1.000	pCi/L	U
U-234		NA			NA	1.000	pCi/L	UU	*U	NA		
U-235/236	UNKN	1.000	pCi/L	U	NA	1.000	pCi/L	UU	*U	1.000	pCi/L	U
U-235/236		NA			NA	2.600	pCi/L	R	*U	NA		
U-238	UNKN	5.160	pCi/L	-	NA	6.000	ug/L	U	*U	1.000	pCi/L	U
U-238		NA			NA				NA	3.000	ug/L	J
U-TOTAL	UNKN	12.000	ug/L	-	NA				NA			
U-TOTAL												

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0281

TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 003248				2037 003249 DUPLICATE 06/01/88				2037 066461			
SAMPLING DATE	06/01/88								06/28/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R		NA		
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	-		NA		
PU-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U		NA		
PU-239/240	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U		NA		
RA-226	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U		NA		
RA-228	*U	3.000	pCi/L	U	*U	3.000	pCi/L	U		NA		
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R		NA		
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U		NA		
TC-99	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U		NA		
TC-99	NA				NA				UNKN	30.000	pCi/L	UJ
TH-228	*U	1.000	pCi/L	U	*U	1.300	pCi/L	-	UNKN	NA		
TH-228	NA				NA				UNKN	1.000	pCi/L	UJ
TH-230	*U	1.000	pCi/L	U	*U	2.800	pCi/L	-	UNKN	NA		
TH-230	NA				NA				UNKN	1.000	pCi/L	UJ
TH-232	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U		NA		
U-234	*U	1.700	pCi/L	U	*U	1.400	pCi/L	-	UNKN	NA		
U-234	NA				NA				UNKN	1.000	pCi/L	UJ
U-235/236	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	UNKN	NA		
U-235/236	NA				NA				UNKN	1.000	pCi/L	UJ
U-238	*U	2.000	pCi/L	-	*U	2.200	pCi/L	-	UNKN	NA		
U-238	NA				NA				UNKN	1.000	pCi/L	UJ
U-TOTAL	*U	4.000	ug/L	J	*U	4.000	ug/L	J	UNKN	NA		
U-TOTAL	NA				NA				UNKN	1.000	ug/L	U

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1-6173

TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 003448			2037 066540			2037 003718					
SAMPLING DATE	08/08/88			08/25/89			11/18/88					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R		NA			*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	UJ		NA			*U	1.000	pCi/L	UJ
PU-238	*U	1.000	pCi/L	UJ		NA			*U	1.000	pCi/L	UJ
PU-239/240	*U	1.000	pCi/L	UJ		NA			*U	1.000	pCi/L	UJ
RA-226	*U	1.000	pCi/L	R		NA			*U	1.000	pCi/L	R
RA-228	*U	3.000	pCi/L	R		NA			*U	3.000	pCi/L	R
RU-106	*U	150.000	pCi/L	R		NA			*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	UJ		NA			*U	5.000	pCi/L	UJ
TC-99	*U	30.000	pCi/L	UJ		NA			*U	30.000	pCi/L	UJ
TC-99		NA			UNKN	30.000	pCi/L	U		NA		
TH-228	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
TH-228		NA			UNKN	1.000	pCi/L	U		NA		
TH-230	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
TH-230		NA			UNKN	1.000	pCi/L	U		NA		
TH-232	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
TH-TOTAL	*U	2.000	ug/L	U		NA			*U	4.000	ug/L	U
U-234	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
U-234		NA			UNKN	1.000	pCi/L	U		NA		
U-235/236	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
U-235/236		NA			UNKN	1.000	pCi/L	U		NA		
U-238	*U	1.000	pCi/L	U		NA			*U	1.000	pCi/L	U
U-238		NA			UNKN	1.000	pCi/L	U		NA		
U-TOTAL	*U	2.000	ug/L	-		NA			*U	1.000	ug/L	U
U-TOTAL		NA			UNKN	2.000	ug/L	-		NA		

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TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 066710			2052 066847			2052 003892					
SAMPLING DATE	11/19/89			01/04/90			02/08/89					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA				NA			*U	20.000	pCi/L	R
NP-237		NA				NA			*U	1.000	pCi/L	U
PU-238		NA				NA			*U	1.000	pCi/L	U
PU-239/240		NA				NA			*U	1.000	pCi/L	U
RA-226		NA				NA			*U	1.000	pCi/L	U
RA-228		NA				NA			*U	3.000	pCi/L	U
RU-106		NA				NA			*U	150.000	pCi/L	R
SR-90		NA				NA			*U	5.000	pCi/L	U
TC-99		NA				NA			*U	30.000	pCi/L	U
TC-99	UNKN	30.000	pCi/L	UJ	UNKN	30.000	pCi/L	U	NA			
TH-228		NA				NA			*U	1.000	pCi/L	U
TH-228	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U	NA	1.000	pCi/L	U
TH-230		NA				NA			*U	1.000	pCi/L	U
TH-230	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	U	NA			
TH-232		NA				NA			*U	1.000	pCi/L	U
TH-TOTAL		NA				NA			*U	2.000	ug/L	U
U-234		NA				NA			*U	1.000	pCi/L	U
U-234	UNKN	2.000	pCi/L	-	UNKN	2.940	pCi/L	R	NA			
U-235	UNKN	1.000	pCi/L	-	UNKN	1.000	pCi/L	U	NA			
U-235/236		NA				NA			*U	1.000	pCi/L	U
U-238		NA				NA			*U	1.000	pCi/L	U
U-238	UNKN	1.520	pCi/L	-	UNKN	3.110	pCi/L	-	NA			
U-TOTAL		NA				NA			*U	1.000	ug/L	U
U-TOTAL	UNKN	5.000	ug/L	J	UNKN	10.100	ug/L	J	NA			

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TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2052 003587			2052 003476 DUPLICATE 12/16/88			2052 003791 12/16/88						
SAMPLING DATE	09/13/88												
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	
CS-137		NA			*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	
CS-137	UNFI	20.000	pCi/L	R	*U	NA	pCi/L	U	*U	NA	1.000	pCi/L	U
NP-237		NA			*U	1.000	pCi/L	U	*U	NA	1.000	pCi/L	U
NP-237	UNFI	1.000	pCi/L	UJ	*U	NA	pCi/L	UJ	*U	NA	1.000	pCi/L	UJ
PU-238		NA			*U	1.000	pCi/L	UJ	*U	NA	1.000	pCi/L	UJ
PU-238	UNFI	1.000	pCi/L	U	*U	NA	pCi/L	UJ	*U	NA	1.000	pCi/L	UJ
PU-239/240		NA			*U	1.000	pCi/L	UJ	*U	NA	1.000	pCi/L	UJ
PU-239/240	UNFI	1.000	pCi/L	U	*U	NA	pCi/L	U	*U	NA	1.000	pCi/L	U
RA-226		NA			*U	1.000	pCi/L	U	*U	NA	1.000	pCi/L	U
RA-226	UNFI	1.000	pCi/L	R	*U	NA	pCi/L	U	*U	NA	3.000	pCi/L	U
RA-228		NA			*U	3.000	pCi/L	U	*U	NA	150.000	pCi/L	R
RA-228	UNFI	5.900	pCi/L	R	*U	NA	pCi/L	R	*U	NA	150.000	pCi/L	R
RU-106		NA			*U	150.000	pCi/L	R	*U	NA	5.000	pCi/L	U
RU-106	UNFI	150.000	pCi/L	R	*U	NA	pCi/L	U	*U	NA	30.000	pCi/L	U
SR-90		NA			*U	5.000	pCi/L	U	*U	NA	1.000	pCi/L	U
SR-90	UNFI	5.000	pCi/L	U	*U	NA	pCi/L	U	*U	NA	NA	pCi/L	U
TC-99		NA			*U	30.000	pCi/L	U	*U	NA	1.000	pCi/L	U
TC-99	UNFI	30.000	pCi/L	U	*U	NA	pCi/L	U	*U	NA	NA	pCi/L	U
TH-228		NA			*U	1.000	pCi/L	U	*U	NA	1.000	pCi/L	U
TH-228	UNFI	1.000	pCi/L	UJ	*U	NA	pCi/L	U	*U	NA	1.000	pCi/L	U
TH-230		NA			*U	1.000	pCi/L	UJ	*U	NA	NA	pCi/L	U
TH-230	UNFI	1.000	pCi/L	UJ	*U	NA	pCi/L	U	*U	NA	1.000	pCi/L	U
TH-232		NA			*U	1.000	pCi/L	U	*U	NA	NA	pCi/L	U
TH-232	UNFI	1.000	pCi/L	UJ	*U	NA	pCi/L	U	*U	NA	7.000	ug/L	U
TH-TOTAL		NA			*U	4.000	ug/L	U	*U	NA	1.000	pCi/L	U
TH-TOTAL	UNFI	3.000	ug/L	UJ	*U	NA	pCi/L	U	*U	NA	1.000	pCi/L	U
U-234		NA			*U	1.000	pCi/L	U	*U	NA	NA	pCi/L	U
U-234	UNFI	1.000	pCi/L	U	*U	NA	pCi/L	U	*U	NA	1.000	pCi/L	U
U-235/236		NA			*U	1.000	pCi/L	U	*U	NA	1.000	pCi/L	U
U-235/236	UNFI	1.000	pCi/L	U	*U	NA	pCi/L	U	*U	NA	1.000	pCi/L	U
U-238		NA			*U	1.000	pCi/L	U	*U	NA	NA	pCi/L	U
U-238	UNFI	1.000	pCi/L	U	*U	NA	pCi/L	U	*U	NA	1.000	pCi/L	U
U-TOTAL		NA			*U	1.000	ug/L	U	*U	NA	1.000	ug/L	U
U-TOTAL	UNFI	1.000	ug/L	U		NA				NA	NA		

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TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3037 003916				3037 003152				3037 066462			
SAMPLING DATE	02/22/89				05/05/88				06/28/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R		NA		
NP-237	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U		NA		
PU-238	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U		NA		
PU-239/240	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U		NA		
RA-226	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U		NA		
RA-228	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	U		NA		
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R		NA		
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U		NA		
TC-99	*U	30.000	pCi/L	UJ	*U	30.000	pCi/L	U		NA		
TC-99		NA				NA				NA		
TH-228	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	UNKN	30.000	pCi/L	UJ
TH-228		NA				NA			UNKN	NA		
TH-230	*U	1.000	pCi/L	U	*U	1.000	pCi/L	J	UNKN	1.000	pCi/L	UJ
TH-230		NA				NA			UNKN	1.000	pCi/L	UJ
TH-232	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U		NA		
TH-TOTAL	*U	5.000	ug/L	U	*U	NA				NA		
U-234	*U	1.000	pCi/L	U	*U	3.700	pCi/L	-	UNKN	1.000	pCi/L	UJ
U-234		NA				NA			UNKN	NA		
U-235/236	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	UNKN	1.000	pCi/L	UJ
U-235/236		NA				NA			UNKN	NA		
U-238	*U	1.800	pCi/L	-	*U	13.000	pCi/L	-	UNKN	NA	1.000	pCi/L UJ
U-238		NA				NA			UNKN	NA	1.000	pCi/L UJ
U-TOTAL	*U	6.000	ug/L	-	*U	35.000	ug/L	R	UNKN	NA	1.000	ug/L -
U-TOTAL		NA				NA			UNKN			

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TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3037 003447				3037 066541				3037 003717				
SAMPLING DATE	08/08/88				08/25/89				11/18/88				
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	
CS-137	*F	20,000	pCi/L	R		NA			*U	NA	20,000	pCi/L	R
CS-137	*U	20,000	pCi/L	R		NA			*U	NA	1,000	pCi/L	U
NP-237	*F	1,000	pCi/L	UJ		NA			*U	NA	1,000	pCi/L	U
NP-237	*U	1,000	pCi/L	UJ		NA			*U	NA	1,000	pCi/L	U
PU-238	*F	1,000	pCi/L	R		NA			*U	NA	1,000	pCi/L	U
PU-238	*U	1,000	pCi/L	U		NA			*U	NA	1,000	pCi/L	U
PU-239/240	*F	1,000	pCi/L	R		NA			*U	NA	1,000	pCi/L	U
PU-239/240	*U	1,000	pCi/L	U		NA			*U	NA	1,000	pCi/L	U
RA-226	*F	1,000	pCi/L	UJ		NA			*U	NA	1,000	pCi/L	U
RA-226	*U	1,000	pCi/L	R		NA			*U	NA	3,000	pCi/L	U
RA-228	*F	3,000	pCi/L	U		NA			*U	NA	150,000	pCi/L	R
RA-228	*U	3,000	pCi/L	UJ		NA			*U	NA	5,000	pCi/L	U
RU-106	*F	150,000	pCi/L	R		NA			*U	NA	30,000	pCi/L	U
RU-106	*U	150,000	pCi/L	R		NA			*U	NA	NA	pCi/L	U
SR-90	*F	5,000	pCi/L	UJ		NA			*U	NA	NA	pCi/L	U
SR-90	*U	5,000	pCi/L	UJ		NA			*U	NA	NA	pCi/L	U
TC-99	*F	30,000	pCi/L	UJ		NA			*U	NA	1,000	pCi/L	U
TC-99	*U	30,000	pCi/L	UJ		NA			*U	NA	NA	pCi/L	U
TC-99		NA			UNKN	30,000	pCi/L	U					
TH-228	*F	1,000	pCi/L	UJ		NA			*U	NA	NA	pCi/L	U
TH-228	*U	1,000	pCi/L	U		NA			*U	NA	1,000	pCi/L	U
TH-228		NA			UNKN	1,000	pCi/L	U					
TH-230	*F	1,000	pCi/L	UJ		NA			*U	NA	NA	pCi/L	U
TH-230	*U	1,000	pCi/L	U		NA			*U	NA	1,000	pCi/L	U
TH-230		NA			UNKN	1,000	pCi/L	U					
TH-232	*F	1,000	pCi/L	UJ		NA			*U	NA	1,000	pCi/L	U
TH-232	*U	1,000	pCi/L	U		NA			*U	NA	7,000	ug/L	D
TH-TOTAL	*F	4,000	ug/L	UJ		NA			*U	NA	NA	pCi/L	U
TH-TOTAL	*U	6,000	ug/L	UJ		NA			*U	NA	NA	pCi/L	U
U-234	*F	2,100	pCi/L	-		NA			*U	NA	1,000	pCi/L	U
U-234	*U	1,400	pCi/L	-		NA			*U	NA	NA	pCi/L	U
U-234		NA			UNKN	1,000	pCi/L	U					
U-235/236	*F	1,000	pCi/L	U		NA			*U	NA	NA	pCi/L	U
U-235/236	*U	1,000	pCi/L	U		NA			*U	NA	1,000	pCi/L	U
U-235/236		NA			UNKN	1,000	pCi/L	U					
U-238	*F	5,700	pCi/L	-		NA			*U	NA	NA	pCi/L	U
U-238	*U	1,000	pCi/L	U		NA			*U	NA	1,000	pCi/L	U
U-238		NA			UNKN	1,000	pCi/L	U					
U-TOTAL	*F	15,000	ug/L	-		NA			*U	NA	NA	ug/L	-
U-TOTAL	*U	1,000	ug/L	-		NA			*U	NA	1,000	ug/L	-
U-TOTAL		NA			UNKN	2,000	ug/L	-					

TABLE C-12A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	3037		
SAMPLE NUMBER	066712		
SAMPLING DATE	11/19/89		
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS
VQ			
TC-99	UNKN	30.000	pCi/L
TH-228	UNKN	1.000	pCi/L
TH-230	UNKN	1.000	pCi/L
U-234	UNKN	1.030	pCi/L
U-235	UNKN	1.000	pCi/L
U-238	UNKN	1.000	pCi/L
U-TOTAL	UNKN	2.000	ug/L

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1035 003245				1035 003560				1035 003736					
SAMPLING DATE	05/25/88				08/11/88				11/15/88					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ		
<u>Inorganics</u>														
Arsenic	FILT	NA			*F	0.350	mg/L	C -	FILT	NA	0.002	mg/L	C U	
Arsenic	FILT	0.200	mg/L	C U	*F	NA	0.090	mg/L	C -	FILT	NA	0.093	mg/L	C -
Barium	FILT	NA			*F	NA	0.002	mg/L	C U	FILT	NA	0.002	mg/L	C U
Barium	FILT	0.125	mg/L	C -	*F	NA	83.900	mg/L	C -	FILT	NA	90.400	mg/L	C -
Cadmium	FILT	NA			*F	NA	0.020	mg/L	C U	FILT	NA	0.020	mg/L	C U
Cadmium	FILT	0.005	mg/L	C U	*F	NA	0.010	mg/L	C U	FILT	NA	0.010	mg/L	C U
Calcium	FILT	NA			*F	NA	0.024	mg/L	C -	FILT	NA	0.009	mg/L	C U
Calcium	FILT	81.700	mg/L	C -	*F	NA	0.050	mg/L	C U	FILT	NA	0.005	mg/L	C J
Chromium	FILT	NA			*F	NA	29.900	mg/L	C -	FILT	NA	30.800	mg/L	C -
Chromium	FILT	0.020	mg/L	C U	*F	NA	0.044	mg/L	C -	FILT	NA	0.028	mg/L	C -
Copper	FILT	NA			*F	NA	0.000	mg/L	C UJ	FILT	NA	0.000	mg/L	C U
Copper	FILT	0.010	mg/L	C U	*F	NA	0.020	mg/L	C U	FILT	NA	0.020	mg/L	C U
Iron	FILT	NA			*F	NA	0.024	mg/L	C -	FILT	NA	0.020	mg/L	C U
Iron	FILT	0.060	mg/L	C U	*F	NA	0.050	mg/L	C U	FILT	NA	0.010	mg/L	C U
Lead	FILT	NA			*F	NA	0.050	mg/L	C U	FILT	NA	0.009	mg/L	C J
Lead	FILT	0.050	mg/L	C UJ	*F	NA	29.900	mg/L	C -	FILT	NA	0.005	mg/L	C J
Magnesium	FILT	NA			*F	NA	31.700	mg/L	C -	FILT	NA	30.800	mg/L	C -
Magnesium	FILT	NA			*F	NA	0.044	mg/L	C -	FILT	NA	0.028	mg/L	C -
Manganese	FILT	NA			*F	NA	0.379	mg/L	C -	FILT	NA	0.000	mg/L	C U
Manganese	FILT	NA			*F	NA	0.000	mg/L	C UJ	FILT	NA	0.000	mg/L	C U
Mercury	FILT	NA			*F	NA	0.020	mg/L	C U	FILT	NA	0.020	mg/L	C U
Mercury	FILT	NA			*F	NA	0.020	mg/L	C U	FILT	NA	0.020	mg/L	C U
Molybdenum	FILT	NA			*F	NA	0.029	mg/L	C -	FILT	NA	0.020	mg/L	C U
Molybdenum	FILT	NA			*F	NA	0.020	mg/L	C U	FILT	NA	0.020	mg/L	C U
Nickel	FILT	NA			*F	NA	0.020	mg/L	C U	FILT	NA	0.020	mg/L	C U
Nickel	FILT	NA			*F	NA	0.020	mg/L	C U	FILT	NA	0.020	mg/L	C U
Potassium	FILT	NA			*F	NA	0.020	mg/L	C U	FILT	NA	0.020	mg/L	C U
Potassium	FILT	NA			*F	NA	1.920	mg/L	C -	FILT	NA	1.130	mg/L	C -
Selenium	FILT	NA			*F	NA	0.958	mg/L	C -	FILT	NA	0.002	mg/L	C UJ
Selenium	FILT	NA			*F	NA	0.200	mg/L	C U	FILT	NA	0.010	mg/L	C U
Silver	FILT	NA			*F	NA	0.200	mg/L	C U	FILT	NA	6.800	mg/L	C -
Silver	FILT	NA			*F	NA	0.010	mg/L	C U	FILT	NA	0.010	mg/L	C U
Sodium	FILT	NA			*F	NA	8.610	mg/L	C -	FILT	NA	0.010	mg/L	C UJ
Sodium	FILT	NA			*F	NA	6.820	mg/L	C J	FILT	NA	0.010	mg/L	C UJ
<u>General Chemistry</u>														
Ammonia	UNFI	0.300	mg/L	D -	UNFI	0.100	mg/L	C UJ	UNFI	0.100	mg/L	C UJ		
Chloride	UNFI	3.000	mg/L	D NV	UNFI	3.000	mg/L	C J	UNFI	10.500	mg/L	C J		
Fluoride	UNFI	0.620	mg/L	D NV	UNFI	0.510	mg/L	C J	UNFI	0.540	mg/L	C -		
Nitrate	UNFI	0.200	mg/L	D NV	UNFI	0.100	mg/L	C R	UNFI	0.296	mg/L	C J		
Phenols	UNFI	0.010	mg/L	D NV	UNFI	0.020	mg/L	C J	UNFI	0.010	mg/L	C UJ		

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER: SAMPLE NUMBER	1035 003245	1035 003560	1035 003736												
SAMPLING DATE	05/25/88	08/11/88	11/15/88												
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Phosphorus	UNFI	4.900	mg/L	D	-	UNFI	3.550	mg/L	C	J	UNFI	0.022	mg/L	C	-
Sulfate	UNFI	45.000	mg/L	D	NV	UNFI	59.000	mg/L	C	J	UNFI	50.300	mg/L	C	-
Total Kjeldahl Nitrogen	NA					NA					UNFI	0.420	mg/L	C	J
Total Organic Halides	NA					NA					UNKN	0.050	mg/L	C	J
Total Organic Nitrogen	UNFI	4.600	mg/L	D	-	UNFI	0.100	mg/L	C	J	UNFI	0.420	mg/L	C	J

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1035 003931	1038 003183	1038 003518			
SAMPLING DATE	02/05/89	05/11/88	08/22/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Arsenic	FILT	NA	FILT	NA	*F	0.002 mg/L C U
Arsenic	FILT	0.002 mg/L C U	FILT	0.200 mg/L C U	*F	NA 0.045 mg/L C -
Barium	FILT	0.097 mg/L C -	FILT	0.050 mg/L C U	*F	NA 0.002 mg/L C U
Cadmium	FILT	0.007 mg/L C -	FILT	0.013 mg/L C -	*F	NA 133.000 mg/L C -
Cadmium	FILT	NA	FILT	NA	NA	0.020 mg/L C U
Calcium	FILT	92.000 mg/L C -	FILT	135.000 mg/L C -	*F	NA 0.010 mg/L C U
Calcium	FILT	NA	FILT	NA	NA	0.160 mg/L C -
Chromium	FILT	0.023 mg/L C -	FILT	0.020 mg/L C U	*F	NA 0.002 mg/L C UJ
Chromium	FILT	NA	FILT	NA	NA	60.600 mg/L C -
Copper	FILT	0.011 mg/L C -	FILT	0.010 mg/L C U	*F	NA 0.204 mg/L C -
Copper	FILT	NA	FILT	NA	NA	0.000 mg/L C UJ
Iron	FILT	0.048 mg/L C -	FILT	0.530 mg/L C -	*F	NA 0.043 mg/L C U
Iron	FILT	NA	FILT	NA	NA	0.020 mg/L C U
Lead	FILT	0.002 mg/L C UJ	FILT	0.050 mg/L C U	*F	NA 0.020 mg/L C U
Magnesium	FILT	NA	FILT	NA	NA	2.400 mg/L C -
Magnesium	FILT	35.500 mg/L C -	FILT	60.900 mg/L C -	*F	NA 0.002 mg/L C UJ
Manganese	FILT	NA	FILT	NA	NA	0.010 mg/L C U
Manganese	FILT	0.036 mg/L C -	FILT	0.286 mg/L C -	*F	NA 8.300 mg/L C -
Mercury	FILT	NA	FILT	NA	NA	10.000 mg/L C -
Mercury	FILT	0.000 mg/L C U	FILT	0.000 mg/L C UJ	*F	0.750 mg/L C J
Molybdenum	FILT	NA	FILT	NA	UNFI	0.100 mg/L C UJ
Molybdenum	FILT	0.020 mg/L C U	FILT	0.027 mg/L C U	UNFI	0.020 mg/L C -
Nickel	FILT	NA	FILT	NA	UNFI	0.020 mg/L C U
Nickel	FILT	0.020 mg/L C U	FILT	0.020 mg/L C U	UNFI	0.010 mg/L C U
Potassium	FILT	NA	FILT	NA	UNFI	0.010 mg/L C U
Potassium	FILT	1.260 mg/L C J	FILT	1.920 mg/L C -	UNFI	NA 0.020 mg/L C -
Selenium	FILT	NA	FILT	NA	UNFI	0.002 mg/L C UJ
Selenium	FILT	0.002 mg/L C UJ	FILT	0.200 mg/L C U	UNFI	NA 0.002 mg/L C UJ
Silver	FILT	NA	FILT	NA	UNFI	0.000 mg/L C UJ
Silver	FILT	0.001 mg/L C U	FILT	0.010 mg/L C U	UNFI	0.000 mg/L C UJ
Sodium	FILT	NA	FILT	NA	UNFI	0.020 mg/L C -
Sodium	FILT	8.510 mg/L C -	FILT	8.700 mg/L C -	UNFI	NA 0.020 mg/L C -
<u>General Chemistry</u>						
Ammonia	UNFI	0.100 mg/L C U	UNFI	0.200 mg/L C J	UNFI	0.200 mg/L C J
Chloride	UNFI	2.000 mg/L C U	UNFI	14.900 mg/L C -	UNFI	10.000 mg/L C -
Fluoride	UNFI	0.360 mg/L C J	UNFI	0.760 mg/L C J	UNFI	0.750 mg/L C J
Nitrate	UNFI	0.580 mg/L C J	UNFI	0.100 mg/L C R	UNFI	0.100 mg/L C UJ
Phenols	UNFI	0.010 mg/L C UJ	UNFI	0.020 mg/L C J	UNFI	0.020 mg/L C -

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1035 003931	1038 003183	1038 003518			
SAMPLING DATE	02/05/89	05/11/88	08/22/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Phosphorus	UNFI	0.070 mg/L C J	UNFI	0.050 mg/L C UJ	UNFI	0.625 mg/L C J
Sulfate	UNFI	52.400 mg/L C J	UNFI	200.000 mg/L C J	UNFI	132.000 mg/L C J
Total Kjeldahl Nitrogen	UNFI	0.160 mg/L C J	NA	NA	NA	NA
Total Organic Halides	UNFI	0.050 mg/L C U	NA	NA	UNFI	0.050 mg/L C U
Total Organic Nitrogen	NA	0.160 mg/L C J	UNFI	0.100 mg/L C UJ	UNFI	0.100 mg/L C J
Total Organic Nitrogen	UNKN	0.160 mg/L C J	NA	NA	NA	NA

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1038 003762				1038 003947				1038 066431						
SAMPLING DATE	11/20/88				02/05/89				06/18/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Aluminum	FILT	NA				FILT	NA				UNKN	0.168	mg/L	C	-
Arsenic	FILT	0.002	mg/L	C	UJ	FILT	0.002	mg/L	C	U		NA			
Barium	FILT	0.040	mg/L	C	-	FILT	0.050	mg/L	C	-		NA			
Barium		NA				FILT	NA				UNKN	0.043	mg/L	C	-
Beryllium		NA				FILT	NA				UNKN	0.001	mg/L	C	U
Cadmium	FILT	0.002	mg/L	C	U	FILT	0.010	mg/L	C	-		NA			
Calcium	FILT	126.000	mg/L	C	-	FILT	147.000	mg/L	C	-		NA			
Calcium		NA				FILT	NA				UNKN	145.000	mg/L	C	-
Chromium	FILT	0.020	mg/L	C	U	FILT	0.036	mg/L	C	-		NA			
Chromium		NA				FILT	NA				UNKN	0.039	mg/L	C	-
Cobalt		NA				FILT	NA				UNKN	0.010	mg/L	C	U
Copper	FILT	0.010	mg/L	C	U	FILT	0.016	mg/L	C	-		NA			
Copper		NA				FILT	NA				UNKN	0.010	mg/L	C	U
Iron	FILT	0.376	mg/L	C	J	FILT	0.140	mg/L	C	-		NA			
Iron		NA				FILT	NA				UNKN	0.156	mg/L	C	-
Lead	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	UJ		NA			
Lead		NA				FILT	NA				UNKN	0.002	mg/L	C	U
Magnesium	FILT	56.000	mg/L	C	-	FILT	66.300	mg/L	C	-		NA			
Magnesium		NA				FILT	NA				UNKN	65.400	mg/L	C	-
Manganese	FILT	0.210	mg/L	C	-	FILT	0.217	mg/L	C	-		NA			
Mercury	FILT	0.000	mg/L	C	U	FILT	0.001	mg/L	C	-		NA			
Molybdenum	FILT	0.036	mg/L	C	-	FILT	0.020	mg/L	C	U		NA			
Nickel	FILT	0.020	mg/L	C	U	FILT	0.029	mg/L	C	-		NA			
Nickel		NA				FILT	NA				UNKN	0.023	mg/L	C	-
Potassium	FILT	1.730	mg/L	C	-	FILT	1.900	mg/L	C	J		NA			
Selenium	FILT	0.002	mg/L	C	UJ	FILT	0.002	mg/L	C	UJ		NA			
Silver	FILT	0.001	mg/L	C	U	FILT	0.001	mg/L	C	U		NA			
Silver		NA				FILT	NA				UNKN	0.014	mg/L	C	-
Sodium	FILT	7.110	mg/L	C	-	FILT	8.660	mg/L	C	-		NA			
Vanadium		NA				FILT	NA				UNKN	0.028	mg/L	C	-
Zinc		NA				FILT	NA				UNKN	0.012	mg/L	C	-
<u>Volatile Organics</u>															
1,1-Dichloroethane		NA					NA				UNFI	5.000	ug/L	C	U
Acetone		NA					NA				UNFI	10.000	ug/L	C	U
Methylene chloride		NA					NA				UNFI	7.000	ug/L	C	U
Tetrachloroethene		NA					NA				UNFI	5.000	ug/L	C	U
Toluene		NA					NA				UNFI	5.000	ug/L	C	U
Trichloroethene		NA					NA				UNFI	5.000	ug/L	C	U
<u>General Chemistry</u>															
Ammonia	UNFI	0.160	mg/L	C	J	UNFI	0.100	mg/L	C	U		NA			

TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1038	1038	1038			
SAMPLE NUMBER	003762	003947	066431			
SAMPLING DATE	11/20/88	02/05/89	06/18/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Chloride	UNFI	2.000 mg/L C -	UNFI	17.500 mg/L C -	UNFI	5.800 mg/L C -
Fluoride	UNFI	0.640 mg/L C -	UNFI	0.460 mg/L C -	UNFI	0.600 mg/L C -
Nitrate	UNFI	0.100 mg/L C -	UNFI	0.100 mg/L C -	UNFI	0.100 mg/L C R
Phenols	UNFI	0.010 mg/L C -	UNFI	0.010 mg/L C -	NA	NA
Phosphorus	UNFI	2.760 mg/L C -	UNFI	0.270 mg/L C -	NA	NA
Sulfate	UNFI	132.000 mg/L C -	UNFI	183.000 mg/L C -	UNFI	158.000 mg/L C -
Total Kjeldahl Nitrogen	UNFI	0.100 mg/L C U	UNFI	0.223 mg/L C	NA	NA
Total Organic Carbon	NA		NA		UNFI	1.960 mg/L C UJ
Total Organic Halides	UNFI	0.050 mg/L C U	UNFI	0.050 mg/L C U	UNFI	0.010 mg/L C UJ
Total Organic Nitrogen	NA		UNFI	0.223 mg/L C U	NA	NA

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1038 066495			1719 047006			2027 003168									
SAMPLING DATE	08/13/89			06/09/92			05/09/88									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																
Aluminum	UNKN	NA				UNKN	NA				*F	0.011	mg/L	C	U	
Aluminum		0.149	mg/L	C	-		0.030	mg/L	D	U		NA	0.047	mg/L	C	U
Antimony		NA				UNKN	NA					NA	0.002	mg/L	C	U
Antimony		NA				UNKN	0.030	mg/L	D	UJ		NA	0.105	mg/L	C	-
Arsenic		NA				UNKN	NA					NA	0.002	mg/L	C	U
Arsenic		NA				UNKN	0.050	mg/L	D	UJ		NA	0.002	mg/L	C	U
Barium		NA				UNKN	NA					NA	0.002	mg/L	C	U
Barium	UNKN	0.048	mg/L	C	-	UNKN	0.116	mg/L	D	-		NA	0.001	mg/L	C	U
Beryllium		NA				UNKN	NA					NA	274.000	mg/L	C	-
Beryllium	UNKN	0.001	mg/L	C	U	UNKN	0.002	mg/L	D	U		NA	0.002	mg/L	C	U
Cadmium		NA				UNKN	NA					NA	0.005	mg/L	C	U
Cadmium		NA				UNKN	0.005	mg/L	D	UJ		NA	0.007	mg/L	C	U
Calcium		NA				UNKN	NA					NA	0.010	mg/L	C	U
Calcium	UNKN	156.000	mg/L	C	-	UNKN	114.000	mg/L	D	-		NA	0.002	mg/L	C	U
Chromium		NA				UNKN	NA					NA	0.005	mg/L	C	U
Chromium	UNKN	0.034	mg/L	C	-	UNKN	0.010	mg/L	D	U		NA	0.007	mg/L	C	U
Cobalt		NA				UNKN	NA					NA	0.010	mg/L	C	U
Cobalt	UNKN	0.010	mg/L	C	U	UNKN	0.010	mg/L	D	U		NA	0.002	mg/L	C	U
Copper		NA				UNKN	NA					NA	0.005	mg/L	C	U
Copper	UNKN	0.010	mg/L	C	U	UNKN	0.010	mg/L	D	U		NA	0.007	mg/L	C	U
Cyanide		NA				UNKN	NA					NA	0.010	mg/L	C	U
Iron		NA				UNKN	NA					NA	8.060	mg/L	C	-
Iron	UNKN	0.295	mg/L	C	-	UNKN	1.150	mg/L	D	-		NA	0.002	mg/L	C	U
Lead		NA				UNKN	NA					NA	49.800	mg/L	C	-
Lead		NA				UNKN	0.040	mg/L	D	UJ		NA	0.461	mg/L	C	-
Magnesium		NA				UNKN	NA					NA	0.000	mg/L	C	UJ
Magnesium	UNKN	0.003	mg/L	C	-	UNKN	82.400	mg/L	D	-		NA	0.033	mg/L	C	U
Manganese		NA				UNKN	NA					NA	0.012	mg/L	C	U
Manganese	UNKN	66.200	mg/L	C	-	UNKN	0.238	mg/L	D	-		NA	3.690	mg/L	C	-
Mercury		NA				UNKN	NA					NA	0.002	mg/L	C	U
Mercury		NA				UNKN	0.000	mg/L	D	U		NA	0.004	mg/L	C	U
Molybdenum		NA				UNKN	NA					NA	0.004	mg/L	C	U
Molybdenum		NA				UNKN	0.038	mg/L	D	-		NA	0.004	mg/L	C	U
Nickel		NA				UNKN	NA					NA	0.004	mg/L	C	U
Nickel	UNKN	0.020	mg/L	C	U	UNKN	0.133	mg/L	D	-		NA	0.004	mg/L	C	U
Potassium		NA				UNKN	NA					NA	0.004	mg/L	C	U
Potassium		NA				UNKN	1.540	mg/L	D	-		NA	0.004	mg/L	C	U
Selenium		NA				UNKN	NA					NA	0.004	mg/L	C	U
Selenium		NA				UNKN	0.080	mg/L	D	UJ		NA	0.004	mg/L	C	U
Silicon		NA				UNKN	7.550	mg/L	D	-		NA	0.004	mg/L	C	U
Silver		NA				UNKN	NA					NA	0.004	mg/L	C	U
Silver	UNKN	0.014	mg/L	C	-	UNKN	0.010	mg/L	D	UJ		NA	0.004	mg/L	C	U

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1038	1719	2027			
SAMPLE NUMBER	066495	047006	003168			
SAMPLING DATE	08/13/89	06/09/92	05/09/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Sodium		NA		NA		*F 30.600 mg/L C -
Sodium		NA		UNKN 37.500 mg/L D -		NA
Thallium		NA		UNKN 0.337 mg/L D J		*F 0.004 mg/L C UJ
Thallium		NA		NA 0.010 mg/L D U		NA 0.003 mg/L C U
Vanadium		NA		NA 0.009 mg/L D -		NA 0.228 mg/L C -
Vanadium	UNKN	0.026 mg/L C -	UNKN			
Zinc		NA				
Zinc	UNKN	0.016 mg/L C -	UNKN			
<u>Volatile Organics</u>						
1,1,1-Trichloroethane		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
1,1,2,2-Tetrachloroethane		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
1,1,2-Trichloroethane		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
1,1-Dichloroethane	UNFI	5.000 ug/L C U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L C UJ
1,1-Dichloroethene		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
1,2-Dichloroethane		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
1,2-Dichloroethene		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
1,2-Dichloropropane		NA		UNFI 10.000 ug/L D U		UNFI 10.000 ug/L C UJ
2-Butanone		NA		UNFI 10.000 ug/L D U		UNFI 10.000 ug/L C UJ
2-Hexanone		NA		UNFI 10.000 ug/L D U		UNFI 10.000 ug/L C UJ
4-Methyl-2-pentanone		NA		UNFI 10.000 ug/L D U		UNFI 10.000 ug/L C UJ
Acetone	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L C UJ
Benzene		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
Bromodichloromethane		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
Bromoform		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
Bromomethane		NA		UNFI 10.000 ug/L D U		UNFI 10.000 ug/L C UJ
Carbon Tetrachloride		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
Carbon disulfide		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
Chlorobenzene		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
Chloroethane		NA		NA		UNFI 10.000 ug/L C UJ
Chloroethene		NA		UNKN 10.000 ug/L D U		NA
Chloroform		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
Chloromethane		NA		UNFI 10.000 ug/L D U		UNFI 10.000 ug/L C UJ
Dibromochloromethane		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
Ethylbenzene		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
Methylene chloride	UNFI	5.000 ug/L C U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L C UJ
Styrene		NA		UNFI 5.000 ug/L D U		UNFI 5.000 ug/L C UJ
Tetrachloroethene	UNFI	5.000 ug/L C U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L C UJ
Toluene	UNFI	5.000 ug/L C UJ	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L C UJ
Trichloroethene	UNFI	5.000 ug/L C U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L C UJ
Vinyl Acetate		NA		NA		UNFI 10.000 ug/L C UJ

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1038	1719	2027						
SAMPLE NUMBER	066495	047006	003168						
SAMPLING DATE	08/13/89	06/09/92	05/09/88						
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ			
<u>Volatile Organics</u>									
Vinyl Acetate	NA	UNKN	10.000 ug/L D U	NA	UNFI	10.000 ug/L D U	NA	UNFI	10.000 ug/L C UJ
Vinyl chloride	NA	UNFI	10.000 ug/L D U	NA	UNFI	5.000 ug/L D U	NA	UNFI	5.000 ug/L C UJ
Xylenes, Total	NA	UNFI	5.000 ug/L D U	NA	UNFI	5.000 ug/L D U	NA	UNFI	5.000 ug/L C UJ
cis-1,3-Dichloropropene	NA	UNFI	5.000 ug/L D U	NA	UNFI	5.000 ug/L D U	NA	UNFI	5.000 ug/L C UJ
trans-1,3-Dichloropropene	NA	UNFI	5.000 ug/L D U	NA	UNFI	5.000 ug/L D U	NA	UNFI	5.000 ug/L C UJ
<u>Semivolatile Organics</u>									
1,2,4-Trichlorobenzene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
1,2-Dichlorobenzene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
1,3-Dichlorobenzene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
1,4-Dichlorobenzene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
2,4,5-Trichlorophenol	NA	NA	NA	NA	UNKN	50.000 ug/L C UJ	NA	UNKN	50.000 ug/L C UJ
2,4,6-Trichlorophenol	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
2,4-Dichlorophenol	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
2,4-Dimethylphenol	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
2,4-Dinitrophenol	NA	NA	NA	NA	UNKN	50.000 ug/L C UJ	NA	UNKN	50.000 ug/L C UJ
2,4-Dinitrotoluene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
2,6-Dinitrotoluene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
2-Chloronaphthalene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
2-Chlorophenol	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
2-Methylnaphthalene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
2-Methylphenol	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
2-Nitroaniline	NA	NA	NA	NA	UNKN	50.000 ug/L C UJ	NA	UNKN	50.000 ug/L C UJ
2-Nitrophenol	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
3,3'-Dichlorobenzidine	NA	NA	NA	NA	UNKN	20.000 ug/L C UJ	NA	UNKN	20.000 ug/L C UJ
3-Nitroaniline	NA	NA	NA	NA	UNKN	50.000 ug/L C UJ	NA	UNKN	50.000 ug/L C UJ
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	UNKN	50.000 ug/L C UJ	NA	UNKN	50.000 ug/L C UJ
4-Bromophenyl phenyl ether	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
4-Chloro-3-methylphenol	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
4-Chlorophenylphenyl ether	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
4-Methylphenol	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
4-Nitroaniline	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
4-Nitrophenol	NA	NA	NA	NA	UNKN	50.000 ug/L C UJ	NA	UNKN	50.000 ug/L C UJ
Acenaphthene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
Acenaphthylene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
Anthracene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
Benzo(a)anthracene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
Benzo(a)pyrene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
Benzo(b)fluoranthene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
Benzo(g,h,i)perylene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ
Benzo(k)fluoranthene	NA	NA	NA	NA	UNKN	10.000 ug/L C UJ	NA	UNKN	10.000 ug/L C UJ

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1038	SAMPLE NUMBER	066495		1719		047006		2027		003168				
SAMPLING DATE	08/13/89				06/09/92				05/09/88						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Benzoic acid		NA					NA				UNKN	50.000	ug/L	C	UJ
Benzyl alcohol		NA					NA				UNKN	10.000	ug/L	C	UJ
Butyl benzyl phthalate		NA					NA				UNKN	10.000	ug/L	C	UJ
Chrysene		NA					NA				UNKN	10.000	ug/L	C	UJ
Di-n-butyl phthalate		NA					NA				UNKN	10.000	ug/L	C	UJ
Di-n-octyl phthalate		NA					NA				UNKN	10.000	ug/L	C	UJ
Dibenzo(a,h)anthracene		NA					NA				UNKN	10.000	ug/L	C	UJ
Dibenzofuran		NA					NA				UNKN	10.000	ug/L	C	UJ
Diethyl phthalate		NA					NA				UNKN	10.000	ug/L	C	UJ
Dimethyl phthalate		NA					NA				UNKN	10.000	ug/L	C	UJ
Fluoranthene		NA					NA				UNKN	10.000	ug/L	C	UJ
Fluorene		NA					NA				UNKN	10.000	ug/L	C	UJ
Hexachlorobenzene		NA					NA				UNKN	10.000	ug/L	C	UJ
Hexachlorobutadiene		NA					NA				UNKN	10.000	ug/L	C	UJ
Hexachlorocyclopentadiene		NA					NA				UNKN	10.000	ug/L	C	UJ
Hexachloroethane		NA					NA				UNKN	10.000	ug/L	C	UJ
Indeno(1,2,3-cd)pyrene		NA					NA				UNKN	10.000	ug/L	C	UJ
Isophorone		NA					NA				UNKN	10.000	ug/L	C	UJ
Methyl parathion		NA					NA				UNFI	1.000	ug/L	C	UJ
N-Nitroso-di-n-propylamine		NA					NA				UNKN	10.000	ug/L	C	UJ
N-Nitrosodiphenylamine		NA					NA				UNKN	10.000	ug/L	C	UJ
Naphthalene		NA					NA				UNKN	10.000	ug/L	C	UJ
Nitrobenzene		NA					NA				UNKN	10.000	ug/L	C	UJ
Parathion		NA					NA				UNFI	0.500	ug/L	C	UJ
Pentachlorophenol		NA					NA				UNKN	50.000	ug/L	C	UJ
Phenanthrene		NA					NA				UNKN	10.000	ug/L	C	UJ
Phenol		NA					NA				UNKN	10.000	ug/L	C	UJ
Pyrene		NA					NA				UNKN	10.000	ug/L	C	UJ
bis(2-Chloroethoxy)methane		NA					NA				UNKN	10.000	ug/L	C	UJ
bis(2-Chloroethyl)ether		NA					NA				UNKN	10.000	ug/L	C	UJ
bis(2-Chloroisopropyl) ether		NA					NA				UNKN	10.000	ug/L	C	UJ
bis(2-Ethylhexyl) phthalate		NA					NA				UNKN	10.000	ug/L	C	UJ
p-Chloroaniline		NA					NA				UNKN	10.000	ug/L	C	UJ
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD		NA					NA				UNFI	0.100	ug/L	C	UJ
4,4'-DDE		NA					NA				UNFI	0.100	ug/L	C	UJ
4,4'-DDT		NA					NA				UNFI	0.100	ug/L	C	UJ
Aldrin		NA					NA				UNFI	0.050	ug/L	C	UJ
Aroclor-1016		NA					NA				UNFI	0.500	ug/L	C	UJ
Aroclor-1221		NA					NA				UNFI	0.500	ug/L	C	UJ

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1038 066495	1719 047006	2027 003168			
SAMPLING DATE	08/13/89	06/09/92	05/09/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
Aroclor-1232	NA		NA		UNFI	0.500 ug/L C
Aroclor-1242	NA		NA		UNFI	0.500 ug/L C
Aroclor-1248	NA		NA		UNFI	0.500 ug/L C
Aroclor-1254	NA		NA		UNFI	1.000 ug/L C
Aroclor-1260	NA		NA		UNFI	1.000 ug/L C
Azinphosmethyl	NA		NA		UNFI	5.000 ug/L C
Demeton	NA		NA		UNFI	1.000 ug/L C
Diazinon	NA		NA		UNFI	0.500 ug/L C
Dieldrin	NA		NA		UNFI	0.100 ug/L C
Disulfoton	NA		NA		UNFI	0.500 ug/L C
Endosulfan II	NA		NA		UNFI	0.500 ug/L C
Endosulfan sulfate	NA		NA		UNFI	0.050 ug/L C
Endosulfan-I	NA		NA		UNFI	0.100 ug/L C
Endrin	NA		NA		UNFI	0.500 ug/L C
Endrin ketone	NA		NA		UNFI	0.500 ug/L C
Ethion	NA		NA		UNFI	0.500 ug/L C
Heptachlor	NA		NA		UNFI	0.050 ug/L C
Heptachlor epoxide	NA		NA		UNFI	0.050 ug/L C
Malathion	NA		NA		UNFI	1.000 ug/L C
Methoxychlor	NA		NA		UNFI	0.500 ug/L C
Toxaphene	NA		NA		UNFI	0.500 ug/L C
alpha-BHC	NA		NA		UNFI	0.050 ug/L C
alpha-Chlordane	NA		NA		UNFI	1.000 ug/L C
beta-BHC	NA		NA		UNFI	0.050 ug/L C
delta-BHC	NA		NA		UNFI	0.050 ug/L C
gamma-BHC (Lindane)	NA		NA		UNFI	0.050 ug/L C
gamma-Chlordane	NA		NA		UNFI	0.500 ug/L C
<u>General Chemistry</u>						
Alkalinity as CaCO ₃	NA		UNFI	535.000 mg/L C	NA	
Ammonia	NA		UNFI	0.300 mg/L C	0.100 mg/L C	
Chloride	UNFI	11.000 mg/L C	UNFI	25.200 mg/L C	79.900 mg/L C	
Fluoride	UNFI	0.500 mg/L C	UNFI	0.560 mg/L C	0.300 mg/L C	
Nitrate	UNFI	0.250 mg/L C	NA		0.100 mg/L C	
Nitrate/nitrite	NA		UNFI	0.100 mg/L C	NA	
Phenols	NA		UNFI	0.010 mg/L C	0.010 mg/L C	
Phosphorus	NA		UNFI	0.050 mg/L C	0.575 mg/L C	
Sulfate	UNFI	155.000 mg/L C	UNFI	296.200 mg/L C	645.000 mg/L C	
Sulfide	NA		UNFI	0.500 mg/L C	NA	
Total Organic Carbon	UNFI	1.000 mg/L C	UNFI	7.340 mg/L C	NA	
Total Organic Halides	UNFI	0.011 mg/L C	UNFI	0.061 mg/L C	NA	

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1038 066495	1719 047006	2027 003168						
SAMPLING DATE	08/13/89	06/09/92	05/09/88						
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ			
<u>General Chemistry</u>									
Total Organic Nitrogen pH	NA NA	UNFI UNFI	0.100 7.290	mg/L stand C	C UJ C -	UNFI NA	0.100 NA	mg/L C	C U

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0300

TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 003453				2027 003731				2027 003941						
SAMPLING DATE	08/10/88				12/01/88				03/08/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ			
<u>Inorganics</u>															
Arsenic	*F	0.010	mg/L	C U	FILT	NA	0.002	mg/L	C R	FILT	NA	0.003	mg/L	C UJ	
Arsenic	*F	NA	0.200	mg/L	C U	FILT	NA	0.059	mg/L	C -	FILT	NA	0.082	mg/L	C J
Barium	*F	NA	0.005	mg/L	C U	FILT	NA	0.002	mg/L	C U	FILT	NA	0.005	mg/L	C UJ
Barium	*F	NA	210.000	mg/L	C -	FILT	NA	106.000	mg/L	C -	FILT	NA	210.000	mg/L	C J
Cadmium	*F	NA	0.010	mg/L	C U	FILT	NA	0.020	mg/L	C U	FILT	NA	0.030	mg/L	C J
Cadmium	*F	NA	0.030	mg/L	C U	FILT	NA	0.010	mg/L	C U	FILT	NA	0.010	mg/L	C UJ
Calcium	*F	NA	6.100	mg/L	C -	FILT	NA	3.280	mg/L	C -	FILT	NA	4.700	mg/L	C J
Calcium	*F	NA	0.005	mg/L	C U	FILT	NA	0.002	mg/L	C R	FILT	NA	0.002	mg/L	C UJ
Chromium	*F	NA	44.000	mg/L	C -	FILT	NA	27.300	mg/L	C -	FILT	NA	44.000	mg/L	C J
Chromium	*F	NA	0.490	mg/L	C -	FILT	NA	0.613	mg/L	C -	FILT	NA	0.480	mg/L	C J
Copper	*F	NA	0.000	mg/L	C U	FILT	NA	0.000	mg/L	C U	FILT	NA	0.000	mg/L	C UJ
Copper	*F	NA	0.050	mg/L	C U	FILT	NA	0.026	mg/L	C -	FILT	NA	0.010	mg/L	C J
Iron	*F	NA	0.040	mg/L	C U	FILT	NA	0.020	mg/L	C U	FILT	NA	0.030	mg/L	C UJ
Iron	*F	NA	5.000	mg/L	C U	FILT	NA	2.490	mg/L	C -	FILT	NA	6.400	mg/L	C J
Lead	*F	NA	0.005	mg/L	C U	FILT	NA	0.002	mg/L	C R	FILT	NA	0.002	mg/L	C UJ
Lead	*F	NA	0.010	mg/L	C U	FILT	NA	0.001	mg/L	C U	FILT	NA	0.010	mg/L	C UJ
Magnesium	*F	NA	34.000	mg/L	C -	FILT	NA	10.900	mg/L	C -	FILT	NA	29.000	mg/L	C J
Magnesium	*F	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C J
Manganese	*F	NA	0.490	mg/L	C -	FILT	NA	0.613	mg/L	C -	FILT	NA	0.480	mg/L	C J
Manganese	*F	NA	0.000	mg/L	C U	FILT	NA	0.000	mg/L	C U	FILT	NA	0.000	mg/L	C UJ
Mercury	*F	NA	0.050	mg/L	C U	FILT	NA	0.026	mg/L	C -	FILT	NA	0.010	mg/L	C J
Molybdenum	*F	NA	0.040	mg/L	C U	FILT	NA	0.020	mg/L	C U	FILT	NA	0.030	mg/L	C UJ
Molybdenum	*F	NA	5.000	mg/L	C U	FILT	NA	2.490	mg/L	C -	FILT	NA	6.400	mg/L	C J
Nickel	*F	NA	0.005	mg/L	C U	FILT	NA	0.002	mg/L	C R	FILT	NA	0.002	mg/L	C UJ
Potassium	*F	NA	0.010	mg/L	C U	FILT	NA	0.001	mg/L	C U	FILT	NA	0.010	mg/L	C UJ
Potassium	*F	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C J
Selenium	*F	NA	0.010	mg/L	C U	FILT	NA	0.001	mg/L	C U	FILT	NA	0.010	mg/L	C UJ
Selenium	*F	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C J
Silver	*F	NA	34.000	mg/L	C -	FILT	NA	10.900	mg/L	C -	FILT	NA	29.000	mg/L	C J
Silver	*F	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C J
Sodium	*F	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C J
Sodium	*F	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C -	FILT	NA	NA	mg/L	C J
<u>General Chemistry</u>															
Ammonia	UNFI	0.500	mg/L	C -	UNFI	0.643	mg/L	C -	UNFI	0.600	mg/L	C J			
Chloride	UNFI	120.000	mg/L	C -	UNFI	75.000	mg/L	C -	UNFI	79.000	mg/L	C J			
Fluoride	UNFI	1.800	mg/L	C -	UNFI	0.170	mg/L	C -	UNFI	0.200	mg/L	C J			
Nitrate	UNFI	0.110	mg/L	C UJ	UNFI	0.100	mg/L	C UJ	UNFI	0.020	mg/L	C UJ			
Phenols	UNFI	0.050	mg/L	C UJ	UNFI	0.010	mg/L	C UJ	UNFI	0.034	mg/L	C UJ			

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 003453	2027 003731	2027 003941												
SAMPLING DATE	08/10/88	12/01/88	03/08/89												
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Phosphorus		NA				UNFI	26.400	mg/L	C	-	UNFI	0.020	mg/L	C	J
Sulfate	UNFI	300.000	mg/L	C	-	UNFI	158.000	mg/L	C	-	UNFI	250.000	mg/L	C	J
Total Kjeldahl Nitrogen	UNFI	15.000	mg/L	C	U	UNFI	5.000	mg/L	C	-	UNFI	1.600	mg/L	C	J
Total Organic Halides		NA				UNFI	0.050	mg/L	C	-	UNFI	0.050	mg/L	C	J
Total Organic Nitrogen		NA				UNFI	4.360	mg/L	C	-	UNFI	1.000	mg/L	C	J

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 066447			2027 066580			2027 066599		
SAMPLING DATE	06/27/89			09/10/89			09/10/89		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Inorganics</u>									
Aluminum	UNKN	0.206	mg/L C J		NA		UNKN	0.275	mg/L C
Antimony		NA			NA		UNKN	0.030	mg/L C
Arsenic		NA			NA		UNKN	0.002	mg/L C
Barium	UNKN	0.082	mg/L C J		NA		UNKN	0.054	mg/L C
Beryllium	UNKN	0.001	mg/L C UJ		NA		UNKN	0.002	mg/L C
Cadmium		NA			NA		UNKN	0.010	mg/L C
Calcium	UNKN	333.000	mg/L C J		NA		UNKN	449.000	mg/L C
Chromium	UNKN	0.053	mg/L C J		NA		UNKN	0.038	mg/L C
Cobalt	UNKN	0.010	mg/L C J		NA		UNKN	0.013	mg/L C
Copper	UNKN	0.010	mg/L C J		NA		UNKN	0.010	mg/L C
Cyanide		NA			NA		UNKN	0.005	mg/L C
Iron	UNKN	5.804	mg/L C J		NA		UNKN	3.270	mg/L C
Lead	UNKN	0.002	mg/L C J		NA		UNKN	0.002	mg/L C
Magnesium	UNKN	68.200	mg/L C J		NA		UNKN	72.200	mg/L C
Manganese		NA			NA		UNKN	1.940	mg/L C
Mercury		NA			NA		UNKN	0.000	mg/L C
Nickel	UNKN	0.026	mg/L C J		NA		UNKN	0.037	mg/L C
Osmium		NA			NA		UNKN	0.050	mg/L C
Potassium		NA			NA		UNKN	4.200	mg/L C
Selenium		NA			NA		UNKN	0.002	mg/L C
Silver	UNKN	0.019	mg/L C J		NA		UNKN	0.010	mg/L C
Sodium		NA			NA		UNKN	33.400	mg/L C
Thallium		NA			NA		UNKN	0.001	mg/L C
Tin		NA			NA		UNKN	0.030	mg/L C
Vanadium	UNKN	0.044	mg/L C J		NA		UNKN	0.044	mg/L C
Zinc	UNKN	0.080	mg/L C J		NA		UNKN	0.026	mg/L C
<u>Volatile Organics</u>									
1,1,1,2-Tetrachloroethane		NA			NA		UNFI	5.000	ug/L D
1,1,1-Trichloroethane		NA			NA		UNFI	5.000	ug/L D
1,1,2,2-Tetrachloroethane		NA			NA		UNFI	5.000	ug/L D
1,1,2-Trichloroethane		NA			NA		UNFI	5.000	ug/L D
1,1-Dichloroethane		NA			NA		UNFI	5.000	ug/L D
1,1-Dichloroethene		NA			NA		UNFI	5.000	ug/L D
1,2,3-Trichloropropane		NA			NA		UNFI	5.000	ug/L D
1,2-Dibromo-3-chloropropane		NA			NA		UNFI	10.000	ug/L D
1,2-Dibromoethane		NA			NA		UNFI	5.000	ug/L D
1,2-Dichloroethane		NA			NA		UNKN	5.000	ug/L D
1,2-Dichloropropane		NA			NA		UNFI	5.000	ug/L D
1,4-Dioxane		NA			NA		UNFI	1000.000	ug/L D
2-Butanone		NA			NA		UNFI	10.000	ug/L D

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 066447	2027 066580	2027 066599			
SAMPLING DATE	06/27/89	09/10/89	09/10/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
2-Chloro-1,3-butadiene		NA		NA	UNFI	5.000 ug/L D UJ
2-Hexanone		NA		NA	UNFI	10.000 ug/L D U
3-Chloropropene		NA		NA	UNFI	5.000 ug/L D UJ
4-Methyl-2-pentanone		NA		NA	UNFI	10.000 ug/L D U
Acetone	UNFI	10.000 ug/L C U		NA	UNFI	10.000 ug/L C UU
Acetonitrile		NA		NA	UNFI	200.000 ug/L D UU
Acrolein		NA		NA	UNFI	10.000 ug/L D UU
Acrylonitrile		NA		NA	UNFI	10.000 ug/L D UU
Benzene		NA		NA	UNFI	5.000 ug/L D UU
Bromodichloromethane		NA		NA	UNFI	5.000 ug/L D UU
Bromoform		NA		NA	UNFI	5.000 ug/L D UU
Bromomethane		NA		NA	UNFI	10.000 ug/L D UU
Carbon Tetrachloride		NA		NA	UNKN	5.000 ug/L D UU
Carbon disulfide		NA		NA	UNFI	10.000 ug/L D UU
Chlorobenzene		NA		NA	UNFI	5.000 ug/L D UU
Chloroethane		NA		NA	UNFI	10.000 ug/L D UU
Chloroform		NA		NA	UNFI	5.000 ug/L D UU
Chloromethane		NA		NA	UNFI	10.000 ug/L D UU
Dibromochloromethane		NA		NA	UNFI	5.000 ug/L D UU
Dibromomethane		NA		NA	UNFI	10.000 ug/L D UU
Dichlorodifluoromethane		NA		NA	UNFI	200.000 ug/L D R
Ethyl cyanide		NA		NA	UNFI	100.000 ug/L D R
Ethyl methacrylate		NA		NA	UNFI	10.000 ug/L D UU
Ethylibenzene		NA		NA	UNFI	5.000 ug/L D UU
Iodomethane		NA		NA	UNFI	5.000 ug/L D UU
Isobutyl alcohol		NA		NA	UNFI	3000.000 ug/L D R
Methacrylonitrile		NA		NA	UNFI	10.000 ug/L D R
Methyl methacrylate		NA		NA	UNFI	10.000 ug/L D UU
Methylene chloride	UNFI	10.000 ug/L C U		NA	UNFI	5.000 ug/L C UU
Pyridine		NA		NA	UNFI	50000.000 ug/L D UU
Styrene		NA		NA	UNFI	5.000 ug/L D UU
Tetrachloroethene	UNFI	5.000 ug/L C U		NA	UNFI	5.000 ug/L C UU
Toluene	UNFI	5.000 ug/L C UJ		NA	UNFI	5.000 ug/L C UU
Trichloroethene	UNFI	5.000 ug/L C U		NA	UNFI	5.000 ug/L D UU
Trichlorofluoromethane		NA		NA	UNFI	5.000 ug/L D UU
Vinyl Acetate		NA		NA	UNFI	10.000 ug/L D UU
Vinyl chloride		NA		NA	UNFI	10.000 ug/L D UU
Xylenes, Total		NA		NA	UNFI	5.000 ug/L D UU
cis-1,3-Dichloropropene		NA		NA	UNFI	5.000 ug/L D UU
trans-1,2-Dichloroethene		NA		NA	UNFI	5.000 ug/L D UU
trans-1,3-Dichloropropene		NA		NA	UNFI	5.000 ug/L D UU
trans-1,4-Dichloro-2-butene		NA		NA	UNFI	20.000 ug/L D UU

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 066447	2027 066580	2027 066599			
SAMPLING DATE	06/27/89	09/10/89	09/10/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
1,2,4,5-Tetrachlorobenzene	NA	NA	UNFI	10.000	ug/L	D
1,2,4-Trichlorobenzene	NA	NA	UNFI	10.000	ug/L	D
1,2-Dichlorobenzene	NA	NA	UNFI	10.000	ug/L	D
1,3,5-Trinitrobenzene	NA	NA	UNFI	10.000	ug/L	D
1,3-Dichlorobenzene	NA	NA	UNFI	10.000	ug/L	D
1,3-Dinitrobenzene	NA	NA	UNFI	10.000	ug/L	D
1,4-Dichlorobenzene	NA	NA	UNFI	10.000	ug/L	D
1,4-Naphthoquinone	NA	NA	UNFI	10.000	ug/L	D
1-Naphthylamine	NA	NA	UNFI	120.000	ug/L	UJ
2,3,4,6-Tetrachlorophenol	NA	NA	UNFI	10.000	ug/L	R
2,4,5-Trichlorophenol	NA	NA	UNFI	50.000	ug/L	R
2,4,6-Trichlorophenol	NA	NA	UNFI	10.000	ug/L	R
2,4-Dichlorophenol	NA	NA	UNFI	10.000	ug/L	R
2,4-Dimethylphenol	NA	NA	UNFI	10.000	ug/L	R
2,4-Dinitrophenol	NA	NA	UNFI	50.000	ug/L	R
2,4-Dinitrotoluene	NA	NA	UNFI	10.000	ug/L	R
2,6-Dichlorophenol	NA	NA	UNFI	10.000	ug/L	R
2,6-Dinitrotoluene	NA	NA	UNFI	10.000	ug/L	R
2-Acetylaminofluorene	NA	NA	UNFI	10.000	ug/L	R
2-Chloronaphthalene	NA	NA	UNFI	10.000	ug/L	R
2-Chlorophenol	NA	NA	UNFI	10.000	ug/L	R
2-Methylnaphthalene	NA	NA	UNKN	10.000	ug/L	R
2-Methylphenol	NA	NA	UNFI	10.000	ug/L	R
2-Naphthylamine	NA	NA	UNFI	170.000	ug/L	UJ
2-Nitroaniline	NA	NA	UNFI	50.000	ug/L	R
2-Nitrophenol	NA	NA	UNFI	10.000	ug/L	R
2-Picoline	NA	NA	UNFI	70.000	ug/L	R
3,3'-Dichlorobenzidine	NA	NA	UNFI	20.000	ug/L	R
3,3'-Dimethylbenzidine	NA	NA	UNFI	80.000	ug/L	R
3-Methylcholanthrene	NA	NA	UNFI	30.000	ug/L	R
3-Methylphenol	NA	NA	UNFI	10.000	ug/L	R
3-Nitroaniline	NA	NA	UNFI	50.000	ug/L	R
4,6-Dinitro-2-methylphenol	NA	NA	UNFI	50.000	ug/L	R
4-Aminobiphenyl	NA	NA	UNFI	50.000	ug/L	R
4-Bromophenyl phenyl ether	NA	NA	UNFI	10.000	ug/L	R
4-Chloro-3-methylphenol	NA	NA	UNFI	10.000	ug/L	R
4-Chlorophenylphenyl ether	NA	NA	UNFI	10.000	ug/L	R
4-Methylphenol	NA	NA	UNFI	10.000	ug/L	R
4-Nitroaniline	NA	NA	UNFI	50.000	ug/L	R
4-Nitrophenol	NA	NA	UNFI	50.000	ug/L	R
4-Nitroquinoline-1-oxide	NA	NA	UNFI	10.000	ug/L	R
5-Nitro-o-toluidine	NA	NA	UNKN	20.000	ug/L	R

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 066447	2027 066580	2027 066599			
SAMPLING DATE	06/27/89	09/10/89	09/10/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
7,12-Dimethylbenz(a)anthracene	NA		NA		UNFI	20.000 ug/L D U
Acenaphthene	NA		NA		UNFI	10.000 ug/L D U
Acenaphthylene	NA		NA		UNFI	10.000 ug/L D U
Acetophenone	NA		NA		UNFI	10.000 ug/L D U
Aniline	NA		NA		UNFI	10.000 ug/L D U
Anthracene	NA		NA		UNFI	10.000 ug/L D U
Aramite	NA		NA		UNFI	10.000 ug/L D U
Benzo(a)anthracene	NA		NA		UNFI	10.000 ug/L D U
Benzo(a)pyrene	NA		NA		UNFI	10.000 ug/L D U
Benzo(b)fluoranthene	NA		NA		UNFI	10.000 ug/L D U
Benzo(g,h,i)perylene	NA		NA		UNFI	10.000 ug/L D U
Benzo(k)fluoranthene	NA		NA		UNFI	10.000 ug/L D U
Benzyl alcohol	NA		NA		UNFI	10.000 ug/L D U
Butyl benzyl phthalate	NA		NA		UNFI	10.000 ug/L D U
Chrysene	NA		NA		UNFI	10.000 ug/L D U
Di-n-butyl phthalate	NA		NA		UNFI	10.000 ug/L D U
Di-n-octyl phthalate	NA		NA		UNFI	10.000 ug/L D U
Diallate	NA		NA		UNFI	10.000 ug/L D U
Dibenzo(a,h)anthracene	NA		NA		UNFI	10.000 ug/L D U
Dibenzofuran	NA		NA		UNFI	10.000 ug/L D U
Diethyl phthalate	NA		NA		UNFI	10.000 ug/L D U
Dimethyl phthalate	NA		NA		UNFI	10.000 ug/L D U
Diphenylamine	NA		NA		UNFI	10.000 ug/L D U
Ethyl methanesulfonate	NA		NA		UNFI	10.000 ug/L D U
Fluoranthene	NA		NA		UNFI	10.000 ug/L D U
Fluorene	NA		NA		UNFI	10.000 ug/L D U
Hexachlorobenzene	NA		NA		UNFI	10.000 ug/L D U
Hexachlorobutadiene	NA		NA		UNFI	10.000 ug/L D U
Hexachlorocyclopentadiene	NA		NA		UNFI	10.000 ug/L D U
Hexachloroethane	NA		NA		UNFI	10.000 ug/L D U
Hexachlorophene	NA		NA		UNFI	500.000 ug/L D R
Hexachloropropene	NA		NA		UNFI	20.000 ug/L D U
Indeno(1,2,3-cd)pyrene	NA		NA		UNFI	10.000 ug/L D U
Isophorone	NA		NA		UNFI	10.000 ug/L D U
Isosafrole	NA		NA		UNFI	10.000 ug/L D U
Methapyrilene	NA		NA		UNFI	40.000 ug/L D U
Methyl methanesulfonate	NA		NA		UNFI	10.000 ug/L D U
Methyl parathion	NA		NA		UNFI	0.050 ug/L D U
N-Nitroso-di-n-propylamine	NA		NA		UNFI	10.000 ug/L D U
N-Nitrosodi-n-butylamine	NA		NA		UNFI	20.000 ug/L D U
N-Nitrosodiethylamine	NA		NA		UNFI	10.000 ug/L D U
N-Nitrosodimethylamine	NA		NA		UNFI	10.000 ug/L D U

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February 18, 1994

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 066447	2027 066580	2027 066599			
SAMPLING DATE	06/27/89	09/10/89	09/10/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
N-Nitrosodiphenylamine	NA	NA	UNFI	3.000 ug/L	D	UJ
N-Nitrosomethylamine	NA	NA	UNFI	10.000 ug/L	D	UJ
N-Nitrosomorpholine	NA	NA	UNFI	10.000 ug/L	D	UJ
N-Nitrosopiperidine	NA	NA	UNFI	10.000 ug/L	D	UJ
N-Nitrosopyrrolidine	NA	NA	UNFI	10.000 ug/L	D	UJ
Naphthalene	NA	NA	UNFI	10.000 ug/L	D	UJ
Nitrobenzene	NA	NA	UNFI	10.000 ug/L	D	UJ
O,O,O-Triethylphosphorothioate	NA	NA	UNFI	10.000 ug/L	D	UJ
Parathion	NA	NA	UNFI	0.050 ug/L	D	UJ
Pentachlorobenzene	NA	NA	UNFI	20.000 ug/L	D	UJ
Pentachloroethane	NA	NA	UNFI	20.000 ug/L	D	UJ
Pentachloronitrobenzene	NA	NA	UNKN	20.000 ug/L	D	R
Pentachloropheno1	NA	NA	UNFI	50.000 ug/L	D	UJ
Phenacetin	NA	NA	UNFI	10.000 ug/L	D	UJ
Phenanthrene	NA	NA	UNFI	10.000 ug/L	D	UJ
Pheno1	NA	NA	UNFI	10.000 ug/L	D	R
Pronamide	NA	NA	UNFI	30.000 ug/L	D	UJ
Pyrene	NA	NA	UNFI	10.000 ug/L	D	UJ
Safrole	NA	NA	UNFI	10.000 ug/L	D	UJ
Sulfotep	NA	NA	UNFI	1.000 ug/L	D	UJ
a,a-Dimethylphenethylamine	NA	NA	UNFI	10.000 ug/L	D	UJ
bis(2-Chloroethoxy)methane	NA	NA	UNFI	10.000 ug/L	D	UJ
bis(2-Chloroethyl)ether	NA	NA	UNFI	10.000 ug/L	D	UJ
bis(2-Chloroisopropyl) ether	NA	NA	UNFI	10.000 ug/L	D	UJ
bis(2-Ethylhexyl) phthalate	NA	NA	UNFI	3.000 ug/L	D	UJ
o-Toluidine	NA	NA	UNFI	10.000 ug/L	D	R
p-Chloroaniline	NA	NA	UNFI	10.000 ug/L	D	UJ
p-Dimethylaminoazobenzene	NA	NA	UNFI	30.000 ug/L	D	UJ
p-Phenylenediamine	NA	NA	UNFI	50.000 ug/L	D	UJ
<u>Herbicide Organics</u>						
2,4,5-T	NA	NA	UNFI	5.000 ug/L	D	U
2,4,5-TP (Silvex)	NA	NA	UNFI	0.025 ug/L	D	U
2,4-D	NA	NA	UNFI	0.050 ug/L	D	U
Dinoseb	NA	NA	UNFI	20.000 ug/L	D	U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	NA	NA	UNFI	0.100 ug/L	D	UJ
4,4'-DDE	NA	NA	UNFI	0.100 ug/L	D	UJ
4,4'-DDT	NA	NA	UNFI	0.100 ug/L	D	UJ

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 066447	2027 066580	2027 066599			
SAMPLING DATE	06/27/89	09/10/89	09/10/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
Aldrin		NA		NA	UNFI	0.050 ug/L D UJ
Aroclor-1016		NA		NA	UNFI	0.500 ug/L D UJ
Aroclor-1221		NA		NA	UNFI	0.500 ug/L D UJ
Aroclor-1232		NA		NA	UNFI	0.500 ug/L D UJ
Aroclor-1242		NA		NA	UNFI	0.500 ug/L D UJ
Aroclor-1248		NA		NA	UNFI	0.500 ug/L D UJ
Aroclor-1254		NA		NA	UNFI	1.000 ug/L D UJ
Aroclor-1260		NA		NA	UNFI	1.000 ug/L D UJ
Dieldrin		NA		NA	UNFI	0.100 ug/L D UJ
Dimethoate		NA		NA	UNFI	1.000 ug/L D UJ
Disulfoton		NA		NA	UNFI	1.000 ug/L D UJ
Endosulfan II		NA		NA	UNFI	0.100 ug/L D UJ
Endosulfan sulfate		NA		NA	UNFI	0.100 ug/L D UJ
Endosulfan-I		NA		NA	UNFI	0.050 ug/L D UJ
Endrin		NA		NA	UNFI	0.100 ug/L D UJ
Endrin ketone		NA		NA	UNFI	0.100 ug/L D UJ
Famphur		NA		NA	UNFI	1.000 ug/L D UJ
Heptachlor		NA		NA	UNFI	0.050 ug/L D UJ
Heptachlor epoxide		NA		NA	UNFI	0.050 ug/L D UJ
Isodrin		NA		NA	UNFI	0.050 ug/L D UJ
Kepone		NA		NA	UNFI	0.100 ug/L D UJ
Methoxychlor		NA		NA	UNFI	0.500 ug/L D UJ
Phorate		NA		NA	UNFI	1.000 ug/L D UJ
Thionazin		NA		NA	UNFI	1.000 ug/L D UJ
Toxaphene		NA		NA	UNFI	1.000 ug/L D UJ
alpha-BHC		NA		NA	UNFI	0.050 ug/L D UJ
alpha-Chlordane		NA		NA	UNFI	0.500 ug/L D UJ
beta-BHC		NA		NA	UNFI	0.050 ug/L D UJ
delta-BHC		NA		NA	UNFI	0.050 ug/L D UJ
gamma-BHC (Lindane)		NA		NA	UNFI	0.050 ug/L D UJ
gamma-Chlordane		NA		NA	UNFI	0.500 ug/L D UJ
<u>General Chemistry</u>						
Chloride	UNFI	140.000 mg/L C J		UNFI	77.000 mg/L C J	NA
Fluoride	UNFI	0.120 mg/L C J		UNFI	0.500 mg/L C J	NA
Nitrate	UNFI	0.100 mg/L C UJ		UNFI	0.100 mg/L C UJ	NA
Sulfate	UNFI	569.000 mg/L C J		UNFI	726.000 mg/L C J	NA
Sulfide	NA			NA		UNFI 0.500 mg/L C U
Total Organic Carbon	UNFI	2.684 mg/L C UJ		UNFI	3.330 mg/L C J	NA
Total Organic Halides	UNFI	0.010 mg/L C U		UNFI	0.028 mg/L C -	NA

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2027	2027	2027			
SAMPLE NUMBER	003454	066581	066600			
SAMPLING DATE	DUPPLICATE 08/10/88	DUPPLICATE 09/10/89	DUPPLICATE 09/10/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Aluminum		NA		NA	UNKN	0.287 mg/L D -
Antimony		NA		NA	UNKN	0.030 mg/L D U
Arsenic	*F	0.010 mg/L C U		NA	NA	
Arsenic		NA		NA	UNKN	0.002 mg/L D U
Barium	*F	0.200 mg/L C U		NA	NA	
Barium		NA		NA	UNKN	0.065 mg/L D -
Beryllium		NA		NA	UNKN	0.002 mg/L D U
Cadmium	*F	0.005 mg/L C U		NA	NA	
Cadmium		NA		NA	UNKN	0.019 mg/L D -
Calcium	*F	210.000 mg/L C -		NA	NA	
Calcium		NA		NA	UNKN	519.000 mg/L D -
Chromium	*F	0.010 mg/L C U		NA	NA	
Chromium		NA		NA	UNKN	0.036 mg/L D -
Cobalt		NA		NA	UNKN	0.014 mg/L D -
Copper	*F	0.030 mg/L C U		NA	NA	
Copper		NA		NA	UNKN	0.010 mg/L D U
Cyanide		NA		NA	UNKN	0.005 mg/L D U
Iron	*F	6.000 mg/L C -		NA	NA	
Iron		NA		NA	UNKN	9.610 mg/L D J
Lead	*F	0.005 mg/L C U		NA	NA	
Lead		NA		NA	UNKN	0.006 mg/L D J
Magnesium	*F	43.000 mg/L C -		NA	NA	
Magnesium		NA		NA	UNKN	81.900 mg/L D -
Manganese	*F	0.480 mg/L C -		NA	NA	
Manganese		NA		NA	UNKN	1.580 mg/L D -
Mercury	*F	0.000 mg/L C U		NA	NA	
Mercury		NA		NA	UNKN	0.000 mg/L D U
Molybdenum	*F	0.050 mg/L C U		NA	NA	
Nickel	*F	0.040 mg/L C U		NA	UNKN	0.037 mg/L D -
Nickel		NA		NA	UNKN	0.050 mg/L D R
Osmium		NA		NA	UNKN	
Potassium	*F	5.000 mg/L C U		NA	NA	
Potassium		NA		NA	UNKN	5.530 mg/L D -
Selenium	*F	0.005 mg/L C U		NA	NA	
Selenium		NA		NA	UNKN	0.002 mg/L D UJ
Silver	*F	0.010 mg/L C U		NA	UNKN	0.010 mg/L D U
Silver		NA		NA	UNKN	
Sodium	*F	33.000 mg/L C -		NA	NA	
Sodium		NA		NA	UNKN	35.100 mg/L D -
Thallium		NA		NA	UNKN	0.001 mg/L D J R
Tin		NA		NA	UNKN	0.030 mg/L D R
Vanadium		NA		NA	UNKN	0.048 mg/L D -

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 003454 DUPLICATE	2027 066581 DUPLICATE	2027 066600 DUPLICATE			
SAMPLING DATE	08/10/88	09/10/89	09/10/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Zinc		NA		NA	UNKN	0.108 mg/L D J
<u>Volatile Organics</u>						
1,1,1,2-Tetrachloroethane		NA		NA	UNFI	5.000 ug/L D J
1,1,1-Trichloroethane		NA		NA	UNFI	5.000 ug/L D J
1,1,2,2-Tetrachloroethane		NA		NA	UNFI	5.000 ug/L D J
1,1,2-Trichloroethane		NA		NA	UNFI	5.000 ug/L D J
1,1-Dichloroethane		NA		NA	UNFI	5.000 ug/L D J
1,1-Dichloroethene		NA		NA	UNFI	5.000 ug/L D J
1,2,3-Trichloropropane		NA		NA	UNFI	5.000 ug/L D J
1,2-Dibromo-3-chloropropane		NA		NA	UNFI	10.000 ug/L D J
1,2-Dibromoethane		NA		NA	UNFI	5.000 ug/L D J
1,2-Dichloroethane		NA		NA	UNFI	5.000 ug/L D J
1,2-Dichloropropane		NA		NA	UNFI	5.000 ug/L D J
1,4-Dioxane		NA		NA	UNFI	1000.000 ug/L D J
2-Butanone		NA		NA	UNFI	10.000 ug/L D J
2-Chloro-1,3-butadiene		NA		NA	UNFI	5.000 ug/L D J
2-Hexanone		NA		NA	UNFI	10.000 ug/L D J
3-Chloropropene		NA		NA	UNFI	5.000 ug/L D J
4-Methyl-2-pentanone		NA		NA	UNKN	10.000 ug/L D J
Acetone		NA		NA	UNFI	10.000 ug/L D J
Acetonitrile		NA		NA	UNFI	200.000 ug/L D J
Acrolein		NA		NA	UNFI	10.000 ug/L D J
Acrylonitrile		NA		NA	UNFI	10.000 ug/L D J
Benzene		NA		NA	UNFI	5.000 ug/L D J
Bromodichloromethane		NA		NA	UNFI	5.000 ug/L D J
Bromoform		NA		NA	UNFI	5.000 ug/L D J
Bromomethane		NA		NA	UNFI	5.000 ug/L D J
Carbon Tetrachloride		NA		NA	UNFI	10.000 ug/L D J
Carbon disulfide		NA		NA	UNFI	5.000 ug/L D J
Chlorobenzene		NA		NA	UNFI	1.000 ug/L D J
Chloroethane		NA		NA	UNFI	5.000 ug/L D J
Chloroform		NA		NA	UNFI	10.000 ug/L D J
Chloromethane		NA		NA	UNFI	5.000 ug/L D J
Dibromochloromethane		NA		NA	UNFI	10.000 ug/L D J
Dibromomethane		NA		NA	UNFI	5.000 ug/L D J
Dichlorodifluoromethane		NA		NA	UNFI	10.000 ug/L D J
Ethyl cyanide		NA		NA	UNFI	200.000 ug/L D J
Ethyl methacrylate		NA		NA	UNFI	100.000 ug/L D J
Ethylbenzene		NA		NA	UNFI	10.000 ug/L D J
Iodomethane		NA		NA	UNFI	5.000 ug/L D J

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	2027 003454 DUPLICATE 08/10/88	2027 066581 DUPLICATE 09/10/89	2027 066600 DUPLICATE 09/10/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
Isobutyl alcohol		NA		NA	UNFI	3000.000 ug/L D U
Methacrylonitrile		NA		NA	UNFI	10.000 ug/L D R
Methyl methacrylate		NA		NA	UNFI	10.000 ug/L D
Methylene chloride		NA		NA	UNFI	5.000 ug/L D
Pyridine		NA		NA	UNFI	50000.000 ug/L D
Styrene		NA		NA	UNFI	5.000 ug/L D
Tetrachloroethene		NA		NA	UNFI	5.000 ug/L D
Toluene		NA		NA	UNFI	5.000 ug/L D
Trichloroethene		NA		NA	UNFI	5.000 ug/L D
Trichlorofluoromethane		NA		NA	UNFI	5.000 ug/L D
Vinyl Acetate		NA		NA	UNFI	10.000 ug/L D
Vinyl chloride		NA		NA	UNFI	10.000 ug/L D
Xylenes, Total		NA		NA	UNFI	5.000 ug/L D
cis-1,3-Dichloropropene		NA		NA	UNFI	5.000 ug/L D
trans-1,2-Dichloroethene		NA		NA	UNFI	5.000 ug/L D
trans-1,3-Dichloropropene		NA		NA	UNFI	5.000 ug/L D
trans-1,4-Dichloro-2-butene		NA		NA	UNFI	20.000 ug/L D
<u>Semivolatile Organics</u>						
1,2,4,5-Tetrachlorobenzene		NA		NA	UNKN	10.000 ug/L D
1,2,4-Trichlorobenzene		NA		NA	UNFI	10.000 ug/L D
1,2-Dichlorobenzene		NA		NA	UNFI	10.000 ug/L D
1,3,5-Trinitrobenzene		NA		NA	UNFI	10.000 ug/L D
1,3-Dichlorobenzene		NA		NA	UNFI	10.000 ug/L D
1,3-Dinitrobenzene		NA		NA	UNFI	10.000 ug/L D
1,4-Dichlorobenzene		NA		NA	UNFI	10.000 ug/L D
1,4-Naphthoquinone		NA		NA	UNFI	10.000 ug/L D
1-Naphthylamine		NA		NA	UNFI	120.000 ug/L D
2,3,4,6-Tetrachlorophenol		NA		NA	UNFI	10.000 ug/L D
2,4,5-Trichlorophenol		NA		NA	UNFI	50.000 ug/L D
2,4,6-Trichlorophenol		NA		NA	UNFI	10.000 ug/L D
2,4-Dichlorophenol		NA		NA	UNFI	10.000 ug/L D
2,4-Dimethylphenol		NA		NA	UNFI	10.000 ug/L D
2,4-Dinitrophenol		NA		NA	UNFI	10.000 ug/L D
2,4-Dinitrotoluene		NA		NA	UNFI	50.000 ug/L D
2,6-Dichlorophenol		NA		NA	UNFI	10.000 ug/L D
2,6-Dinitrotoluene		NA		NA	UNFI	10.000 ug/L D
2-Acetylaminofluorene		NA		NA	UNFI	10.000 ug/L D
2-Chloronaphthalene		NA		NA	UNFI	10.000 ug/L D
2-Chlorophenol		NA		NA	UNKN	10.000 ug/L D
2-Methylnaphthalene		NA		NA	UNFI	10.000 ug/L D

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2027	2027	2027			
SAMPLE NUMBER	003454	066581	066600			
SAMPLING DATE	DUPLICATE	DUPLICATE	DUPLICATE			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
2-Methylphenol	NA		NA		UNFI	10.000 ug/L D R
2-Naphthylamine	NA		NA		UNFI	170.000 ug/L D UJ
2-Nitroaniline	NA		NA		UNFI	50.000 ug/L D UJ
2-Nitrophenol	NA		NA		UNFI	10.000 ug/L D UJ
2-Picoline	NA		NA		UNFI	70.000 ug/L D UJ
3,3'-Dichlorobenzidine	NA		NA		UNFI	20.000 ug/L D UJ
3,3'-Dimethylbenzidine	NA		NA		UNFI	80.000 ug/L D UJ
3-Methylcholanthrene	NA		NA		UNFI	30.000 ug/L D UJ
3-Methylphenol	NA		NA		UNFI	10.000 ug/L D UJ
3-Nitroaniline	NA		NA		UNFI	50.000 ug/L D UJ
4,6-Dinitro-2-methylphenol	NA		NA		UNFI	50.000 ug/L D UJ
4-Aminobiphenyl	NA		NA		UNFI	50.000 ug/L D UJ
4-Bromophenyl phenyl ether	NA		NA		UNFI	10.000 ug/L D UJ
4-Chloro-3-methylphenol	NA		NA		UNKN	10.000 ug/L D UJ
4-Chlorophenylphenyl ether	NA		NA		UNFI	10.000 ug/L D UJ
4-Methylphenol	NA		NA		UNFI	10.000 ug/L D UJ
4-Nitroaniline	NA		NA		UNFI	50.000 ug/L D UJ
4-Nitrophenol	NA		NA		UNFI	50.000 ug/L D UJ
4-Nitroquinoline-1-oxide	NA		NA		UNFI	10.000 ug/L D UJ
5-Nitro-o-toluidine	NA		NA		UNFI	20.000 ug/L D UJ
7,12-Dimethylbenz(a)anthracene	NA		NA		UNFI	20.000 ug/L D UJ
Acenaphthene	NA		NA		UNFI	10.000 ug/L D UJ
Acenaphthylene	NA		NA		UNFI	10.000 ug/L D UJ
Acetophenone	NA		NA		UNFI	10.000 ug/L D UJ
Aniline	NA		NA		UNFI	10.000 ug/L D UJ
Anthracene	NA		NA		UNFI	10.000 ug/L D UJ
Aramite	NA		NA		UNFI	10.000 ug/L D UJ
Benzo(a)anthracene	NA		NA		UNFI	10.000 ug/L D UJ
Benzo(a)pyrene	NA		NA		UNFI	10.000 ug/L D UJ
Benzo(b)fluoranthene	NA		NA		UNFI	10.000 ug/L D UJ
Benzo(g,h,i)perylene	NA		NA		UNFI	10.000 ug/L D UJ
Benzo(k)fluoranthene	NA		NA		UNFI	10.000 ug/L D UJ
Benzyl alcohol	NA		NA		UNFI	10.000 ug/L D UJ
Butyl benzyl phthalate	NA		NA		UNKN	10.000 ug/L D UJ
Chrysene	NA		NA		UNFI	10.000 ug/L D UJ
Di-n-butyl phthalate	NA		NA		UNFI	10.000 ug/L D UJ
Di-n-octyl phthalate	NA		NA		UNFI	10.000 ug/L D UJ
Diallate	NA		NA		UNFI	10.000 ug/L D UJ
Dibenzo(a,h)anthracene	NA		NA		UNFI	10.000 ug/L D UJ
Dibenzofuran	NA		NA		UNFI	10.000 ug/L D UJ
Diethyl phthalate	NA		NA		UNFI	10.000 ug/L D UJ
Dimethyl phthalate	NA		NA		UNFI	10.000 ug/L D UJ

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2027	2027	2027					
SAMPLE NUMBER	003454	066581	066600					
SAMPLING DATE	DUPLICATE 08/10/88	DUPLICATE 09/10/89	DUPLICATE 09/10/89					
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>								
Diphenylamine	NA	NA	UNFI	10.000	ug/L	0	0	0
Ethyl methanesulfonate	NA	NA	UNFI	10.000	ug/L	0	0	0
Fluoranthene	NA	NA	UNFI	10.000	ug/L	0	0	0
Fluorene	NA	NA	UNFI	10.000	ug/L	0	0	0
Hexachlorobenzene	NA	NA	UNFI	10.000	ug/L	0	0	0
Hexachlorobutadiene	NA	NA	UNFI	10.000	ug/L	0	0	0
Hexachlorocyclopentadiene	NA	NA	UNFI	10.000	ug/L	0	0	0
Hexachloroethane	NA	NA	UNFI	10.000	ug/L	0	0	0
Hexachlorophene	NA	NA	UNFI	500.000	ug/L	0	0	0
Hexachloropropene	NA	NA	UNFI	20.000	ug/L	0	0	0
Indeno(1,2,3-cd)pyrene	NA	NA	UNFI	10.000	ug/L	0	0	0
Isophorone	NA	NA	UNFI	10.000	ug/L	0	0	0
Isosafrole	NA	NA	UNFI	10.000	ug/L	0	0	0
Methacrylene	NA	NA	UNFI	40.000	ug/L	0	0	0
Methyl methanesulfonate	NA	NA	UNFI	10.000	ug/L	0	0	0
Methyl parathion	NA	NA	UNFI	0.050	ug/L	0	0	0
N-Nitroso-di-n-propylamine	NA	NA	UNFI	10.000	ug/L	0	0	0
N-Nitrosodi-n-butylamine	NA	NA	UNFI	20.000	ug/L	0	0	0
N-Nitrosodiethylamine	NA	NA	UNFI	10.000	ug/L	0	0	0
N-Nitrosodimethylamine	NA	NA	UNFI	10.000	ug/L	0	0	0
N-Nitrosodiphenylamine	NA	NA	UNFI	10.000	ug/L	0	0	0
N-Nitrosomethylethylamine	NA	NA	UNFI	10.000	ug/L	0	0	0
N-Nitrosomorpholine	NA	NA	UNFI	10.000	ug/L	0	0	0
N-Nitrosopiperidine	NA	NA	UNFI	10.000	ug/L	0	0	0
N-Nitrosopyrrolidine	NA	NA	UNFI	10.000	ug/L	0	0	0
Naphthalene	NA	NA	UNFI	10.000	ug/L	0	0	0
Nitrobenzene	NA	NA	UNFI	10.000	ug/L	0	0	0
O,O,O-Triethylphosphorothioate	NA	NA	UNFI	10.000	ug/L	0	0	0
Parathion	NA	NA	UNFI	0.050	ug/L	0	0	0
Pentachlorobenzene	NA	NA	UNFI	20.000	ug/L	0	0	0
Pentachloroethane	NA	NA	UNFI	20.000	ug/L	0	0	0
Pentachloronitrobenzene	NA	NA	UNFI	20.000	ug/L	0	0	0
Pentachlorophenol	NA	NA	UNFI	50.000	ug/L	0	0	0
Phenacetin	NA	NA	UNFI	10.000	ug/L	0	0	0
Phenanthrene	NA	NA	UNFI	10.000	ug/L	0	0	0
Phenol	NA	NA	UNFI	10.000	ug/L	0	0	0
Pronamide	NA	NA	UNFI	30.000	ug/L	0	0	0
Pyrene	NA	NA	UNFI	10.000	ug/L	0	0	0
Safrole	NA	NA	UNFI	10.000	ug/L	0	0	0
Sulfotep	NA	NA	UNFI	1.000	ug/L	0	0	0
a,a-Dimethylphenethylamine	NA	NA	UNFI	10.000	ug/L	0	0	0
bis(2-Chloroethoxy)methane	NA	NA	UNFI	10.000	ug/L	0	0	0

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2027 003454 DUPLICATE	2027 066581 DUPLICATE	2027 066600 DUPLICATE			
SAMPLING DATE	08/10/88	09/10/89	09/10/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
bis(2-Chloroethyl)ether	NA	NA	UNFI	10.000	ug/L	D U
bis(2-Chloroisopropyl) ether	NA	NA	UNFI	10.000	ug/L	D U
bis(2-Ethylhexyl) phthalate	NA	NA	UNFI	10.000	ug/L	D D R
o-Toluidine	NA	NA	UNFI	10.000	ug/L	D D R
p-Chloroaniline	NA	NA	UNFI	10.000	ug/L	D D U
p-Dimethylaminobenzene	NA	NA	UNFI	30.000	ug/L	D D U
p-Phenylenediamine	NA	NA	UNFI	50.000	ug/L	D D U
<u>Herbicide Organics</u>						
2,4,5-T	NA	NA	UNFI	5.000	ug/L	D U
2,4,5-TP (Silvex)	NA	NA	UNFI	0.025	ug/L	D D
2,4-D	NA	NA	UNFI	0.050	ug/L	D D D
Dinoseb	NA	NA	UNFI	20.000	ug/L	D U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	NA	NA	UNFI	0.100	ug/L	D U
4,4'-DDE	NA	NA	UNKN	0.100	ug/L	D D
4,4'-DDT	NA	NA	UNFI	0.100	ug/L	D D D
Aldrin	NA	NA	UNFI	0.050	ug/L	D D D
Aroclor-1016	NA	NA	UNFI	0.500	ug/L	D D D
Aroclor-1221	NA	NA	UNFI	0.500	ug/L	D D D
Aroclor-1232	NA	NA	UNFI	0.500	ug/L	D D D
Aroclor-1242	NA	NA	UNFI	0.500	ug/L	D D D
Aroclor-1248	NA	NA	UNFI	0.500	ug/L	D D D
Aroclor-1254	NA	NA	UNFI	1.000	ug/L	D D D
Aroclor-1260	NA	NA	UNFI	1.000	ug/L	D D D
Dieldrin	NA	NA	UNFI	0.100	ug/L	D D D
Dimethoate	NA	NA	UNFI	1.000	ug/L	D D D
Disulfoton	NA	NA	UNFI	1.000	ug/L	D D D
Endosulfan II	NA	NA	UNFI	0.100	ug/L	D D D
Endosulfan sulfate	NA	NA	UNFI	0.100	ug/L	D D D
Endosulfan-I	NA	NA	UNFI	0.050	ug/L	D D D
Endrin	NA	NA	UNFI	0.100	ug/L	D D D
Endrin ketone	NA	NA	UNFI	0.100	ug/L	D D D
Famphur	NA	NA	UNFI	1.000	ug/L	D D D
Heptachlor	NA	NA	UNFI	0.050	ug/L	D D D
Heptachlor epoxide	NA	NA	UNFI	0.050	ug/L	D D D
Isodrin	NA	NA	UNFI	0.050	ug/L	D D D
Kepone	NA	NA	UNFI	0.100	ug/L	D D D
Methoxychlor	NA	NA	UNFI	0.500	ug/L	D D D

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2027				2027				2027			
SAMPLE NUMBER	003454				066581				066600			
SAMPLING DATE	DUPLICATE 08/10/88				DUPLICATE 09/10/89				DUPLICATE 09/10/89			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS
<u>Pesticide Organics/PCBs</u>												
Phorate		NA					NA				UNFI	1.000
Thionazin		NA					NA				UNFI	1.000
Toxaphene		NA					NA				UNFI	1.000
alpha-BHC		NA					NA				UNFI	0.050
alpha-Chlordane		NA					NA				UNFI	0.500
beta-BHC		NA					NA				UNFI	0.050
delta-BHC		NA					NA				UNFI	0.050
gamma-BHC (Lindane)		NA					NA				UNFI	0.050
gamma-Chlordane		NA					NA				UNFI	0.500
<u>General Chemistry</u>												
Ammonia	UNFI	0.500	mg/L	C	-		NA				NA	NA
Chloride	UNFI	98.000	mg/L	C	C		UNFI	114.000	mg/L	C	J	NA
Fluoride	UNFI	1.800	mg/L	C	C		UNFI	0.130	mg/L	C	J	NA
Nitrate	UNFI	0.100	mg/L	C	C		UNFI	0.100	mg/L	C	J	NA
Phenols	UNFI	0.050	mg/L	C	C		NA				NA	NA
Sulfate	UNFI	310.000	mg/L	C	-		UNFI	1320.000	mg/L	C	J	NA
Sulfide	NA						NA				UNFI	0.500
Total Kjeldahl Nitrogen	UNFI	15.000	mg/L	C	U		NA				NA	mg/L C U
Total Organic Carbon	NA						UNFI	1.980	mg/L	C	J	NA
Total Organic Halides	NA						UNFI	0.010	mg/L	C	J	NA

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 003248				2037 003448				2037 003718			
SAMPLING DATE	06/01/88				08/08/88				11/18/88			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum	FILT	0.013	mg/L	C J		NA				NA		
Antimony	FILT	0.047	mg/L	C U		NA				NA		
Arsenic	FILT	NA			*F	0.010	mg/L	D R		NA		
Arsenic	FILT	0.002	mg/L	C J		NA	0.200	mg/L	D R	FILT	0.002	mg/L C UJ
Barium	FILT	NA			*F	NA				NA		
Barium	FILT	0.081	mg/L	C J		NA				0.086	mg/L	C -
Beryllium	FILT	0.002	mg/L	C U		NA				NA		
Cadmium	FILT	NA			*F	0.005	mg/L	D R		NA		
Cadmium	FILT	0.001	mg/L	C U		NA				0.002	mg/L	C U
Calcium	FILT	NA			*F	120.000	mg/L	D R		NA		
Calcium	FILT	124.000	mg/L	C J		NA				132.000	mg/L	C -
Chromium	FILT	NA			*F	0.010	mg/L	D R		NA		
Chromium	FILT	0.002	mg/L	C U		NA				0.020	mg/L	C U
Cobalt	FILT	0.005	mg/L	C U		NA				NA		
Copper	FILT	NA			*F	0.030	mg/L	D R		NA		
Copper	FILT	0.007	mg/L	C U		NA				0.010	mg/L	C U
Cyanide	UNKN	0.020	mg/L	C NV		NA				NA		
Iron	NA					NA				NA		
Iron	FILT	2.700	mg/L	C -	*F	3.100	mg/L	D R		NA		
Lead	FILT	NA			*F	0.005	mg/L	D R		3.190	mg/L	C -
Lead	FILT	0.002	mg/L	C U		NA				0.003	mg/L	C R
Magnesium	FILT	NA			*F	29.000	mg/L	D R		NA		
Magnesium	FILT	28.000	mg/L	C -		NA	0.220	mg/L	D R	28.500	mg/L	C -
Manganese	FILT	NA			*F	NA	0.000	mg/L	C R	NA		
Manganese	FILT	0.287	mg/L	C -		NA				0.218	mg/L	C -
Mercury	FILT	NA			*F	NA	0.050	mg/L	D R	NA		
Mercury	FILT	0.001	mg/L	C -		NA				0.000	mg/L	C U
Molybdenum	FILT	NA			*F	NA	0.040	mg/L	D R	NA		
Molybdenum	FILT	0.033	mg/L	C U		NA				0.020	mg/L	C U
Nickel	FILT	NA			*F	NA	5.000	mg/L	D R	NA		
Nickel	FILT	0.012	mg/L	C U		NA				0.020	mg/L	C U
Potassium	FILT	NA			*F	NA	0.005	mg/L	D R	NA		
Potassium	FILT	2.580	mg/L	C J		NA				2.370	mg/L	C -
Selenium	FILT	NA			*F	NA	0.010	mg/L	D R	NA		
Selenium	FILT	0.002	mg/L	C UJ		NA				0.002	mg/L	C UJ
Silver	FILT	NA			*F	NA	14.000	mg/L	D R	NA		
Silver	FILT	0.004	mg/L	C U		NA				0.001	mg/L	C U
Sodium	FILT	NA				NA				NA		
Sodium	FILT	14.900	mg/L	C -		NA				11.600	mg/L	C -
Thallium	FILT	0.004	mg/L	C UJ		NA				NA		
Vanadium	FILT	0.003	mg/L	C U		NA				NA		
Zinc	FILT	0.100	mg/L	C -		NA				NA		

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 TABLE C-12A
 (Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2037	2037	2037
SAMPLE NUMBER	003248	003448	003718
SAMPLING DATE	06/01/88	08/08/88	11/18/88
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	UNFI	5.000	ug/L D U
1,1,2,2-Tetrachloroethane	UNFI	5.000	ug/L D U
1,1,2-Trichloroethane	UNFI	5.000	ug/L D
1,1-Dichloroethane	UNFI	5.000	ug/L C D U
1,1-Dichloroethene	UNFI	5.000	ug/L C N
1,2-Dichloroethane	UNFI	5.000	ug/L D D
1,2-Dichloroethene	UNFI	5.000	ug/L D D
1,2-Dichloropropane	UNFI	5.000	ug/L D D
2-Butanone	UNFI	10.000	ug/L D R
2-Hexanone	UNFI	10.000	ug/L D U
4-Methyl-2-pentanone	UNFI	10.000	ug/L D D
Acetone	UNFI	10.000	ug/L C N
Benzene	UNFI	1.000	ug/L C N
Bromodichloromethane	UNFI	5.000	ug/L D D
Bromoform	UNFI	5.000	ug/L D
Bromomethane	UNKN	10.000	ug/L D U
Carbon Tetrachloride	UNFI	5.000	ug/L D
Carbon disulfide	UNFI	5.000	ug/L D D
Chlorobenzene	UNFI	5.000	ug/L C N
Chloroethane	UNFI	10.000	ug/L C N
Chloroform	UNFI	5.000	ug/L D D
Chloromethane	UNFI	10.000	ug/L C N
Dibromochloromethane	UNFI	5.000	ug/L D
Ethylbenzene	UNFI	5.000	ug/L D
Methylene chloride	UNFI	5.000	ug/L D D
Styrene	UNFI	5.000	ug/L C D
Tetrachloroethene	UNFI	5.000	ug/L C N
Toluene	UNFI	5.000	ug/L C N
Trichloroethene	UNFI	5.000	ug/L C N
Vinyl Acetate	UNFI	10.000	ug/L D
Vinyl chloride	UNFI	10.000	ug/L D
Xylenes, Total	UNFI	5.000	ug/L D D
cis-1,3-Dichloropropene	UNFI	5.000	ug/L D D
trans-1,3-Dichloropropene	UNFI	5.000	ug/L D
<u>Semivolatile Organics</u>			
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L D U
1,2-Dichlorobenzene	UNFI	10.000	ug/L D D
1,3-Dichlorobenzene	UNFI	10.000	ug/L D D
1,4-Dichlorobenzene	UNFI	10.000	ug/L D D
2,4,5-Trichlorophenol	UNFI	50.000	ug/L D

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER		2037		2037		2037									
SAMPLE NUMBER		003248		003448		003718									
SAMPLING DATE		06/01/88		08/08/88		11/18/88									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	D	U		NA					NA			
2,4-Dichlorophenol	UNFI	10.000	ug/L	D	U		NA					NA			
2,4-Dimethylphenol	UNFI	10.000	ug/L	D	U		NA					NA			
2,4-Dinitrophenol	UNFI	50.000	ug/L	D	U		NA					NA			
2,4-Dinitrotoluene	UNFI	10.000	ug/L	D	U		NA					NA			
2,6-Dinitrotoluene	UNFI	10.000	ug/L	D	U		NA					NA			
2-Chloronaphthalene	UNFI	10.000	ug/L	D	U		NA					NA			
2-Chlorophenol	UNFI	10.000	ug/L	D	U		NA					NA			
2-Methylnaphthalene	UNFI	10.000	ug/L	D	U		NA					NA			
2-Methylphenol	UNFI	10.000	ug/L	D	U		NA					NA			
2-Nitroaniline	UNFI	50.000	ug/L	D	U		NA					NA			
2-Nitrophenol	UNFI	10.000	ug/L	D	U		NA					NA			
3,3'-Dichlorobenzidine	UNFI	20.000	ug/L	D	U		NA					NA			
3-Nitroaniline	UNFI	50.000	ug/L	D	U		NA					NA			
4,6-Dinitro-2-methylphenol	UNFI	50.000	ug/L	D	U		NA					NA			
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	D	U		NA					NA			
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	D	U		NA					NA			
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	D	U		NA					NA			
4-Methylphenol	UNFI	10.000	ug/L	D	U		NA					NA			
4-Nitroaniline	UNFI	50.000	ug/L	D	U		NA					NA			
4-Nitrophenol	UNFI	50.000	ug/L	D	U		NA					NA			
Acenaphthene	UNFI	10.000	ug/L	D	U		NA					NA			
Acenaphthylene	UNFI	10.000	ug/L	D	U		NA					NA			
Anthracene	UNFI	10.000	ug/L	D	U		NA					NA			
Benzo(a)anthracene	UNFI	10.000	ug/L	D	U		NA					NA			
Benzo(a)pyrene	UNFI	10.000	ug/L	D	U		NA					NA			
Benzo(b)fluoranthene	UNFI	10.000	ug/L	D	U		NA					NA			
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	D	U		NA					NA			
Benzo(k)fluoranthene	UNFI	10.000	ug/L	D	U		NA					NA			
Benzoic acid	UNFI	50.000	ug/L	D	U		NA					NA			
Benzyl alcohol	UNFI	10.000	ug/L	D	U		NA					NA			
Butyl benzyl phthalate	UNFI	10.000	ug/L	D	U		NA					NA			
Chrysene	UNFI	10.000	ug/L	D	U		NA					NA			
Di-n-butyl phthalate	UNFI	6.000	ug/L	D	U		NA					NA			
Di-n-octyl phthalate	UNFI	10.000	ug/L	D	U		NA					NA			
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	D	U		NA					NA			
Dibenzofuran	UNFI	10.000	ug/L	D	U		NA					NA			
Diethyl phthalate	UNFI	10.000	ug/L	D	U		NA					NA			
Dimethyl phthalate	UNFI	10.000	ug/L	D	U		NA					NA			
Fluoranthene	UNFI	10.000	ug/L	D	U		NA					NA			
Fluorene	UNFI	10.000	ug/L	D	U		NA					NA			
Hexachlorobenzene	UNFI	10.000	ug/L	D	U		NA					NA			

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2037	2037	2037
SAMPLE NUMBER	003248	003448	003718
SAMPLING DATE	06/01/88	08/08/88	11/18/88
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>			
Hexachlorobutadiene	UNFI	10.000	ug/L D U
Hexachlorocyclopentadiene	UNFI	10.000	ug/L D U
Hexachloroethane	UNFI	10.000	ug/L D U
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L D U
Isophorone	UNFI	10.000	ug/L D U
Methyl parathion	UNFI	1.000	ug/L C
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L D U
N-Nitrosodiphenylamine	UNFI	50.000	ug/L D U
Naphthalene	UNFI	10.000	ug/L D U
Nitrobenzene	UNFI	10.000	ug/L D U
Parathion	UNFI	0.500	ug/L C
Pentachlorophenol	UNFI	50.000	ug/L D U
Phenanthrene	UNFI	10.000	ug/L D U
Phenol	UNFI	10.000	ug/L D U
Pyrene	UNFI	10.000	ug/L D U
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L D U
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L D U
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L D U
bis(2-Ethylhexyl) phthalate	UNFI	7.000	ug/L C
p-Chloroaniline	UNFI	10.000	ug/L D
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	UNFI	0.100	ug/L D U
4,4'-DDE	UNFI	0.100	ug/L D U
4,4'-DDT	UNFI	0.100	ug/L C
Aldrin	UNFI	0.050	ug/L C
Aroclor-1016	UNFI	0.500	ug/L C
Aroclor-1221	UNFI	0.500	ug/L D
Aroclor-1232	UNFI	0.500	ug/L D
Aroclor-1242	UNFI	0.500	ug/L D
Aroclor-1248	UNFI	0.500	ug/L D
Aroclor-1254	UNFI	1.000	ug/L D
Aroclor-1260	UNFI	1.000	ug/L D
Azinphosmethyl	UNFI	5.000	ug/L C
Demeton	UNFI	1.000	ug/L C
Diazinon	UNFI	0.500	ug/L C
Dieldrin	UNFI	0.050	ug/L C
Disulfoton	UNFI	0.500	ug/L C
Endosulfan II	UNFI	0.100	ug/L D
Endosulfan sulfate	UNFI	0.100	ug/L D
Endosulfan-I	UNFI	0.050	ug/L D

TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 003248				2037 003448				2037 003718							
SAMPLING DATE	06/01/88				08/08/88				11/18/88							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Pesticide Organics/PCBs</u>																
Endrin	UNFI	0.050	ug/L	C	NV		NA					NA				
Endrin ketone	UNFI	0.100	ug/L	D	U		NA					NA				
Ethion	UNFI	0.500	ug/L	D	U		NA					NA				
Heptachlor	UNFI	0.050	ug/L	D	U	NV	NA					NA				
Heptachlor epoxide	UNFI	0.050	ug/L	D	U		NA					NA				
Malathion	UNFI	1.000	ug/L	D	U		NA					NA				
Methoxychlor	UNFI	0.500	ug/L	D	U		NA					NA				
Toxaphene	UNFI	1.000	ug/L	D	U		NA					NA				
alpha-BHC	UNFI	0.050	ug/L	D	U		NA					NA				
alpha-Chlordane	UNFI	0.500	ug/L	D	U		NA					NA				
beta-BHC	UNFI	0.050	ug/L	D	U		NA					NA				
delta-BHC	UNFI	0.050	ug/L	D	U		NA					NA				
gamma-BHC (Lindane)	UNFI	0.050	ug/L	D	U	NV	NA					NA				
gamma-Chlordane	UNFI	0.500	ug/L	D	U		NA					NA				
<u>Dioxin/Furan</u>																
2,3,7,8-TCDD	UNFI	0.004	ug/L	C	NV		NA					NA				
2,3,7,8-TCDF	UNFI	0.002	ug/L	D	U	NV	NA					NA				
Heptachlorodibenzo-p-dioxin	UNFI	0.001	ug/L	D	U		NA					NA				
Heptachlorodibenzofuran	UNFI	0.001	ug/L	D	U		NA					NA				
Hexachlorodibenzo-p-dioxins	UNFI	0.001	ug/L	D	U		NA					NA				
Hexachlorodibenzofuran	UNFI	0.001	ug/L	D	U		NA					NA				
Octachlorodibenzo-p-dioxin	UNFI	0.002	ug/L	D	U		NA					NA				
Octachlorodibenzofuran	UNFI	0.002	ug/L	D	U		NA					NA				
Pentachlorodibenzo-p-dioxin	UNFI	0.001	ug/L	D	U		NA					NA				
Pentachlorodibenzofuran	UNFI	0.001	ug/L	D	U		NA					NA				
Tetrachlorodibenzo-p-dioxin	UNFI	0.001	ug/L	D	U		NA					NA				
Tetrachlorodibenzofuran	UNFI	0.000	ug/L	C	U		NA					NA				
<u>General Chemistry</u>																
Ammonia	UNFI	0.410	mg/L	C	UJ		UNFI	0.100	mg/L	C	U	UNFI	0.170	mg/L	C	-
Chloride	UNFI	25.400	mg/L	C	-		UNFI	NA	22.200	mg/L	C	UNFI	NA	mg/L	C	-
Chloride	UNFI	NA	mg/L	C	-		UNKN	27.000	mg/L	C	NV	UNFI	0.260	mg/L	C	-
Fluoride	UNFI	0.510	mg/L	C	-		UNFI	0.200	mg/L	C	NV	UNFI	0.100	mg/L	C	R
Nitrate	UNFI	NA	mg/L	C	-		UNFI	2.500	mg/L	C	UU	UNFI	NA	mg/L	C	-
Nitrate	UNKN	0.150	mg/L	C	J		NA					UNFI	0.010	mg/L	C	U
Phenols	UNFI	0.170	mg/L	C	J		UNFI	0.010	mg/L	C	U	UNFI	NA	mg/L	C	U
Phosphate	UNFI	NA	mg/L	C	-		UNFI	1.000	mg/L	C	-	UNFI	0.020	mg/L	C	U
Phosphorus	UNFI	0.340	mg/L	C	-		NA					UNKN	NA	mg/L	C	U
Phosphorus	UNFI	NA	mg/L	C	-		NA									

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 003248	2037 003448	2037 003718			
SAMPLING DATE	06/01/88	08/08/88	11/18/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Sulfate	UNFI	157.000 mg/L C -	UNFI	130.000 mg/L C NV	NA	NA mg/L C J
Sulfate		NA		NA	UNKN	95.200 mg/L C -
Total Kjeldahl Nitrogen	UNFI	0.410 mg/L C UJ	NA	NA	UNFI	0.390 mg/L C -
Total Organic Halides	NA		NA		UNFI	0.050 mg/L C U
Total Organic Halides	NA		UNKN	0.050 mg/L D R	NA	
Total Organic Nitrogen	UNFI	0.410 mg/L C UJ	UNFI	0.100 mg/L C U	UNFI	0.220 mg/L C -

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2037	2037	2037			
SAMPLE NUMBER	003917	066461	066540			
SAMPLING DATE	02/22/89	06/28/89	08/25/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Aluminum	FILT	NA	UNKN	0.187 mg/L C -		NA
Arsenic	FILT	0.003 mg/L C UJ	UNKN	NA		NA
Barium	FILT	0.089 mg/L C J	UNKN	0.095 mg/L C -		NA
Barium		NA	UNKN	0.001 mg/L C U		NA
Beryllium		NA	UNKN	NA		NA
Cadmium	FILT	0.005 mg/L C UJ	UNKN	NA		NA
Calcium	FILT	140.000 mg/L C J	UNKN	145.000 mg/L C -		NA
Calcium		NA	UNKN	0.040 mg/L C -		NA
Chromium	FILT	0.030 mg/L C J	UNKN	0.010 mg/L C U		NA
Chromium		NA	UNKN	NA		NA
Cobalt		NA	UNKN	NA		NA
Copper	FILT	0.010 mg/L C UJ	UNKN	0.010 mg/L C U		NA
Copper		NA	UNKN	NA		NA
Iron	FILT	3.100 mg/L C J	UNKN	3.470 mg/L C -		NA
Iron		NA	UNKN	NA		NA
Lead	FILT	0.002 mg/L C UJ	UNKN	0.007 mg/L C -		NA
Lead		NA	UNKN	NA		NA
Magnesium	FILT	29.000 mg/L C J	UNKN	34.300 mg/L C -		NA
Magnesium		NA	UNKN	NA		NA
Manganese	FILT	0.290 mg/L C J	UNKN	NA		NA
Mercury	FILT	0.000 mg/L C UJ	UNKN	NA		NA
Molybdenum	FILT	0.010 mg/L C J	UNKN	NA		NA
Nickel	FILT	0.030 mg/L C UJ	UNKN	NA		NA
Nickel		NA	UNKN	0.020 mg/L C U		NA
Potassium	FILT	2.600 mg/L C J	UNKN	NA		NA
Selenium	FILT	0.005 mg/L C UJ	UNKN	NA		NA
Silver	FILT	0.010 mg/L C UJ	UNKN	NA		NA
Silver		NA	UNKN	0.020 mg/L C -		NA
Sodium	FILT	13.000 mg/L C J	UNKN	NA		NA
Vanadium		NA	UNKN	0.027 mg/L C -		NA
Zinc		NA	UNKN	0.185 mg/L C -		NA
<u>Volatile Organics</u>						
1,1-Dichloroethane		NA	UNFI	5.000 ug/L C UJ		NA
Acetone		NA	UNFI	7.000 ug/L C UJ		NA
Methylene chloride		NA	UNFI	6.000 ug/L C UJ		NA
Tetrachloroethene		NA	UNFI	5.000 ug/L C UJ		NA
Toluene		NA	UNFI	5.000 ug/L C UJ		NA
Trichloroethene		NA	UNFI	5.000 ug/L C UJ		NA
<u>General Chemistry</u>						
Ammonia	UNFI	0.300 mg/L C J	NA		NA	

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251786

TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 003917	2037 066461	2037 066540												
SAMPLING DATE	02/22/89	06/28/89	08/25/89												
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Chloride	UNFI	24.000	mg/L	C	U	UNFI	24.000	mg/L	C	-	UNFI	29.000	mg/L	C	J
Fluoride	UNFI	0.200	mg/L	C	J	UNFI	0.200	mg/L	C	-	UNFI	0.170	mg/L	C	-
Nitrate	UNFI	0.020	mg/L	C	J	UNFI	0.100	mg/L	C	R	UNFI	0.100	mg/L	C	U
Phenols	UNFI	0.012	mg/L	C	J	NA					NA				
Phosphorus	UNFI	0.030	mg/L	C	J	NA					NA				
Sulfate	UNFI	140.000	mg/L	C	J	UNFI	193.000	mg/L	C	-	UNFI	474.000	mg/L	C	NV
Total Kjeldahl Nitrogen	UNFI	0.700	mg/L	C	J	NA					NA				
Total Organic Carbon	NA					UNFI	3.630	mg/L	C	U	UNFI	1.490	mg/L	C	-
Total Organic Halides	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U
Total Organic Nitrogen	UNFI	0.400	mg/L	C	J	NA					NA				

TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 066570			2037 003249 DUPLICATE 06/01/88			2052 003587			
SAMPLING DATE	08/25/88						09/13/88			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	
<u>Inorganics</u>										
Aluminum		NA		FILT	0.011	mg/L C U	FILT	0.050	mg/L C U	
Aluminum		NA			NA		UNFI	0.090	mg/L C -	
Antimony	UNKN	0.190	mg/L D U	FILT	0.047	mg/L C U	FILT	0.001	mg/L C -	
Antimony		NA			NA		UNFI	0.001	mg/L C -	
Antimony	UNKN	0.030	mg/L D U	FILT	0.002	mg/L C U	FILT	0.002	mg/L C U	
Arsenic		NA			NA		UNFI	0.002	mg/L C U	
Arsenic		NA			NA			NA		
Arsenic	UNKN	0.002	mg/L D U	FILT	0.083	mg/L C J	FILT	0.144	mg/L C -	
Barium		NA			NA		UNFI	0.139	mg/L C -	
Barium		NA			NA			NA		
Barium	UNKN	0.094	mg/L D -	FILT	0.002	mg/L C U	FILT	0.001	mg/L C U	
Beryllium		NA			NA		UNFI	0.001	mg/L C U	
Beryllium		NA			NA			NA		
Beryllium	UNKN	0.002	mg/L D U	FILT	0.001	mg/L C U	FILT	0.002	mg/L C U	
Cadmium		NA			NA		UNFI	0.002	mg/L C U	
Cadmium		NA			NA			NA		
Calcium	UNKN	0.009	mg/L D U	FILT	12.000	mg/L C J	FILT	129.000	mg/L C -	
Calcium		NA			NA		UNFI	123.000	mg/L C -	
Calcium	UNKN	228.000	mg/L D -	FILT	0.002	mg/L C U	FILT	0.020	mg/L C U	
Chromium		NA			NA		UNFI	0.020	mg/L C U	
Chromium		NA			NA			NA		
Chromium	UNKN	0.035	mg/L D U	FILT	0.005	mg/L C U	FILT	0.010	mg/L C U	
Cobalt		NA			NA		UNFI	0.010	mg/L C U	
Cobalt		NA			NA			NA		
Cobalt	UNKN	0.010	mg/L D U	FILT	0.007	mg/L C U	FILT	0.010	mg/L C U	
Copper		NA			NA		UNFI	0.010	mg/L C U	
Copper		NA			NA			NA		
Copper	UNKN	0.032	mg/L D U	FILT	0.010	mg/L C U	FILT	0.010	mg/L C U	
Cyanide		UNKN	0.005	mg/L D U	UNKN	2.630	mg/L C -	UNKN	0.010	mg/L C UJ
Iron		NA		FILT	NA		FILT	3.610	mg/L C -	
Iron		NA			NA		UNFI	3.430	mg/L C -	
Iron	UNKN	5.540	mg/L D -	FILT	0.002	mg/L C U	FILT	0.007	mg/L C -	
Lead		NA			NA		UNFI	0.003	mg/L C J	
Lead		NA			NA			NA		
Lead	UNKN	0.005	mg/L D J	FILT	27.700	mg/L C -	FILT	28.600	mg/L C -	
Magnesium		NA			NA		UNFI	27.300	mg/L C -	
Magnesium		NA			NA			NA		
Magnesium	UNKN	42.200	mg/L D -	FILT	0.282	mg/L C -	FILT	0.244	mg/L C -	
Manganese		NA			NA		UNFI	0.226	mg/L C -	
Manganese		NA			NA			NA		

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2037 066570			2037 003249 DUPLICATE 06/01/88			2052 003587									
SAMPLING DATE	08/25/89						09/13/88									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																
Manganese	UNKN	0.378	mg/L	D	-	FILT	NA	mg/L	C	U	FILT	NA	mg/L	C	U	
Mercury		NA					NA				UNFI	0.000	mg/L	C	U	
Mercury		NA					NA					NA	0.000	mg/L	C	U
Molybdenum	UNKN	0.000	mg/L	D	R	FILT	0.033	mg/L	C	U	FILT	0.020	mg/L	C	U	
Molybdenum		NA					NA				UNFI	0.020	mg/L	C	U	
Nickel		NA				FILT	0.012	mg/L	C	U	FILT	0.020	mg/L	C	U	
Nickel		NA					NA				UNFI	0.020	mg/L	C	U	
Potassium	UNKN	0.021	mg/L	D	U		NA					NA				
Osmium	UNKN	0.050	mg/L	D	R	FILT	2.760	mg/L	C	J	FILT	1.120	mg/L	C	-	
Potassium		NA					NA				UNFI	1.030	mg/L	C	-	
Potassium		NA					NA					NA				
Selenium	UNKN	2.840	mg/L	D	-	FILT	0.002	mg/L	C	UJ	FILT	0.002	mg/L	C	U	
Selenium		NA					NA				UNFI	0.002	mg/L	C	U	
Selenium		NA					NA					NA				
Silver	UNKN	0.002	mg/L	D	UJ	FILT	0.004	mg/L	C	U	FILT	0.001	mg/L	C	U	
Silver		NA					NA				UNFI	0.001	mg/L	C	U	
Sodium	UNKN	0.014	mg/L	D	U	FILT	15.100	mg/L	C	-	FILT	15.800	mg/L	C	-	
Sodium		NA					NA				UNFI	14.900	mg/L	C	-	
Sodium		NA					NA					NA				
Thallium	UNKN	13.900	mg/L	D	-	FILT	0.004	mg/L	C	UJ	FILT	0.001	mg/L	C	U	
Thallium		NA					NA				UNFI	0.001	mg/L	C	U	
Thallium		NA					NA					NA				
Tin	UNKN	0.001	mg/L	D	U		NA					NA				
Vanadium	UNKN	0.030	mg/L	D	R	FILT	0.003	mg/L	C	U	FILT	0.010	mg/L	C	U	
Vanadium		NA					NA				UNFI	0.015	mg/L	C	-	
Vanadium		NA					NA					NA				
Zinc	UNKN	0.030	mg/L	D	U	FILT	0.036	mg/L	C	-	FILT	0.028	mg/L	C	-	
Zinc		NA					NA				UNFI	0.027	mg/L	C	-	
Zinc	UNKN	0.056	mg/L	D	-		NA					NA				
<u>Volatile Organics</u>																
1,1,1,2-Tetrachloroethane	UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	D	U	
1,1,1-Trichloroethane	UNFI	5.000	ug/L	D	UJ		UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	D	U
1,1,2,2-Tetrachloroethane	UNFI	5.000	ug/L	D	U		UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	D	U
1,1,2-Trichloroethane	UNFI	5.000	ug/L	D	U		UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	D	U
1,1-Dichloroethane	UNFI	5.000	ug/L	D	UJ		UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	D	U
1,1-Dichloroethene	UNFI	5.000	ug/L	D	U		UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	D	U
1,2,3-Trichloropropene	UNFI	5.000	ug/L	D	U		NA					NA				

TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 066570	2037 003249 DUPLICATE 06/01/88	2052 003587			
SAMPLING DATE	08/25/89		09/13/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
1,2-Dibromo-3-chloropropane	UNFI	10.000 ug/L D U		NA		NA
1,2-Dibromoethane	UNFI	5.000 ug/L D UJ		NA		NA
1,2-Dichloroethane	UNFI	5.000 ug/L D UJ	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U
1,2-Dichloroethene			UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U
1,2-Dichloropropane	UNFI	NA	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U
1,4-Dioxane	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U
2-Butanone	UNFI	1000.000 ug/L D U		NA		NA
2-Butanone	UNFI	10.000 ug/L D UJ		NA		NA
2-Chloro-1,3-butadiene	UNFI	NA	UNKN	10.000 ug/L D R	UNFI	10.000 ug/L D R
2-Hexanone	UNFI	5.000 ug/L D U	UNFI	NA	NA	NA
3-Chloropropene	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L D U
4-Methyl-2-pentanone	UNFI	5.000 ug/L D U	UNFI	NA	NA	NA
Acetone	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L D U
Acetonitrile	UNFI	200.000 ug/L D U		NA		NA
Acrolein	UNFI	10.000 ug/L D U		NA		NA
Acrylonitrile	UNFI	10.000 ug/L D U		NA		NA
Benzene	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D UJ	UNFI	5.000 ug/L D U
Bromodichloromethane	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U
Bromoform	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U
Bromomethane	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L D U
Carbon Tetrachloride	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U
Carbon disulfide	UNFI	11.000 ug/L D -	UNFI	NA	UNFI	5.000 ug/L D U
Carbon disulfide	NA		UNKN	5.000 ug/L D U		NA
Chlorobenzene	UNFI	NA	UNFI	5.000 ug/L D UJ	UNFI	5.000 ug/L D U
Chlorobenzene	UNKN	5.000 ug/L D UJ		NA		NA
Chloroethane	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L D U
Chloroform	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U
Chloromethane	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L D U	UNFI	10.000 ug/L D U
Dibromochloromethane	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U
Dibromomethane	UNFI	10.000 ug/L D U		NA		NA
Dichlorodifluoromethane	UNFI	200.000 ug/L D U		NA		NA
Ethyl cyanide	UNFI	100.000 ug/L D U		NA		NA
Ethyl methacrylate	UNFI	10.000 ug/L D U		NA		NA
Ethylenbenzene	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D UJ	UNFI	5.000 ug/L D U
Iodomethane	UNFI	5.000 ug/L D U		NA		NA
Isobutyl alcohol	UNFI	3000.000 ug/L D U		NA		NA
Methacrylonitrile	UNFI	10.000 ug/L D U		NA		NA
Methyl methacrylate	UNFI	10.000 ug/L D U		NA		NA
Methylene chloride	UNFI	5.000 ug/L D U	UNFI	1.000 ug/L D U	UNFI	5.000 ug/L D U
Pyridine	UNKN	50000.000 ug/L D U		NA		NA
Styrene	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D UJ	UNFI	5.000 ug/L D U
Tetrachloroethene	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U	UNFI	5.000 ug/L D U

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 066570				2037 003249 DUPLICATE 06/01/88				2052 003587						
SAMPLING DATE	08/25/89								09/13/88						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Toluene	UNFI	5.000	ug/L	D	UJ	UNFI	5.000	ug/L	D	UJ	UNFI	5.000	ug/L	D	U
Trichloroethene	UNFI	5.000	ug/L	D	UJ	UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	D	U
Trichlorofluoromethane	UNFI	5.000	ug/L	D	UJ	NA					NA				
Vinyl Acetate	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U
Vinyl chloride	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U
Xylenes, Total	UNFI	5.000	ug/L	D	UJ	UNFI	5.000	ug/L	D	UJ	UNFI	5.000	ug/L	D	U
cis-1,3-Dichloropropene	UNFI	5.000	ug/L	D	UJ	UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	D	U
trans-1,2-Dichloroethene	UNFI	5.000	ug/L	D	UJ	NA					NA				
trans-1,3-Dichloropropene	UNFI	5.000	ug/L	D	UJ	UNFI	5.000	ug/L	D	U	UNFI	5.000	ug/L	D	U
trans-1,4-Dichloro-2-butene	UNFI	20.000	ug/L	D	U	NA					NA				
<u>Semivolatile Organics</u>															
1,2,4,5-Tetrachlorobenzene	UNFI	10.000	ug/L	D	UJ	NA					NA				
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
1,3,5-Trinitrotoluene	UNFI	10.000	ug/L	D	UJ	NA					NA				
1,3-Dichlorobenzene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
1,3-Dinitrobenzene	UNFI	10.000	ug/L	D	UJ	NA					NA				
1,4-Dichlorobenzene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
1,4-Naphthoquinone	UNFI	10.000	ug/L	D	UJ	NA					NA				
1-Naphthylamine	UNFI	120.000	ug/L	D	UJ	NA					NA				
2,3,4,6-Tetrachlorophenol	UNFI	10.000	ug/L	D	UJ	NA					NA				
2,4,5-Trichlorophenol	UNFI	50.000	ug/L	D	UJ	UNFI	50.000	ug/L	D	U	UNFI	50.000	ug/L	D	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
2,4-Dinitrophenol	UNFI	50.000	ug/L	D	UJ	UNFI	50.000	ug/L	D	U	UNFI	50.000	ug/L	D	U
2,4-Dinitrotoluene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
2,6-Dichlorophenol	UNFI	10.000	ug/L	D	UJ	NA					NA				
2,6-Dinitrotoluene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
2-Acetylaminofluorene	UNFI	10.000	ug/L	D	UJ	NA					NA				
2-Chloronaphthalene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
2-Chlorophenol	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
2-Methylnaphthalene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
2-Methylphenol	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
2-Naphthylamine	UNFI	170.000	ug/L	D	UJ	NA					NA				
2-Nitroaniline	UNFI	50.000	ug/L	D	UJ	UNFI	50.000	ug/L	D	U	UNFI	50.000	ug/L	D	UJ
2-Nitrophenol	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
2-Picoline	UNFI	70.000	ug/L	D	UJ	NA					NA				
3,3'-Dichlorobenzidine	UNFI	20.000	ug/L	D	UJ	UNFI	20.000	ug/L	D	U	UNFI	20.000	ug/L	D	U
3,3'-Dimethylbenzidine	UNFI	80.000	ug/L	D	U	NA					NA				

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 066570				2037 003249 DUPLICATE 06/01/88				2052 003587						
SAMPLING DATE	08/25/89								09/13/88						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
3-Methylcholanthrene	UNFI	30.000	ug/L	D	U		NA					NA			
3-Methylphenol	UNFI	10.000	ug/L	D	R		NA					NA			
3-Nitroaniline	UNFI	50.000	ug/L	D	UJ	UNFI	50.000	ug/L	D	U	UNFI	50.000	ug/L	D	R
4,6-Dinitro-2-methylphenol	UNFI	50.000	ug/L	D	UJ	UNFI	50.000	ug/L	D	U	UNFI	50.000	ug/L	D	U
4-Aminobiphenyl	UNFI	50.000	ug/L				NA					NA			
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
4-Methylphenol	UNFI	10.000	ug/L	D	R	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
4-Nitroaniline	UNFI	50.000	ug/L	D	UJ	UNFI	50.000	ug/L	D	U	UNFI	50.000	ug/L	D	U
4-Nitrophenol	UNFI	50.000	ug/L			UNFI	50.000	ug/L	D	U	UNFI	50.000	ug/L	D	U
4-Nitroquinoline-1-oxide	UNFI	10.000	ug/L	D	UJ		NA					NA			
5-Nitro-o-toluidine	UNFI	20.000	ug/L				NA					NA			
7,12-Dimethylbenz(a)anthracene	UNFI	20.000	ug/L				NA					NA			
Acenaphthene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Acenaphthylene	UNFI	10.000	ug/L	D	U	UNFI	NA				UNFI	10.000	ug/L	D	U
Acenaphthylene	NA					UNKN	10.000	ug/L	D	U	NA				
Acetophenone	UNFI	10.000	ug/L	D	U		NA					NA			
Aniline	UNFI	10.000	ug/L	D	U		NA					NA			
Anthracene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Aramite	UNFI	10.000	ug/L	D	R		NA					NA			
Aramite	UNKN	10.000	ug/L				NA					NA			
Benzo(a)anthracene	UNFI	10.000	ug/L	D	U		NA					NA			
Benzo(a)pyrene	UNFI	10.000	ug/L			UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L			UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Benzoic acid	NA					UNFI	50.000	ug/L	D	U	UNFI	50.000	ug/L	D	U
Benzyl alcohol	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Butyl benzyl phthalate	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Chrysene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Di-n-butyl phthalate	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Di-n-octyl phthalate	UNFI	10.000	ug/L	D	U	UNFI	5.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Diallate	UNFI	10.000	ug/L			UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	D	U		NA					NA			
Dibenzo furan	UNFI	10.000	ug/L			UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Diethyl phthalate	UNFI	10.000	ug/L			UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Dimethyl phthalate	UNFI	10.000	ug/L			UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Diphenylamine	UNFI	10.000	ug/L				NA					NA			
Ethyl methanesulfonate	UNFI	10.000	ug/L	D	U		NA					NA			
Fluoranthene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Fluorene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2037				2037				2052						
SAMPLE NUMBER	066570				003249				003587						
SAMPLING DATE	08/25/89				DUPPLICATE				09/13/88						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Hexachlorobenzene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U
Hexachlorobutadiene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	UJ
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	UJ
Hexachloroethane	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Hexachlorophene	UNFI	500.000	ug/L	D	R	NA					NA				
Hexachloropropene	UNFI	20.000	ug/L	D	UJ	NA					NA				
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Isophorone	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	UJ
Isosafrole	UNFI	10.000	ug/L	D	UJ	NA					NA				
Methacrylene	UNFI	40.000	ug/L	D	UJ	NA					NA				
Methyl methanesulfonate	UNFI	10.000	ug/L	D	U	NA					NA				
Methyl parathion	NA					UNFI	1.000	ug/L	C	UJ	UNFI	0.500	ug/L	C	U
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	UJ
N-Nitrosodi-n-butylamine	UNFI	20.000	ug/L	D	UJ	NA					NA				
N-Nitrosodimethylamine	UNFI	10.000	ug/L	D	U	NA					NA				
N-Nitrosodimethylamine	UNFI	10.000	ug/L	D	U	NA					NA				
N-Nitrosodiphenylamine	UNFI	2.000	ug/L	D	UJ	UNFI	50.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
N-Nitrosomethylisothiazoline	UNFI	10.000	ug/L	D	UJ	NA					NA				
N-Nitrosomorpholine	UNFI	10.000	ug/L	D	UJ	NA					NA				
N-Nitrosopiperidine	UNFI	10.000	ug/L	D	UJ	NA					NA				
N-Nitrosopyrrolidine	UNFI	10.000	ug/L	D	UJ	NA					NA				
Naphthalene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Nitrobenzene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	UJ
O,O,O-Triethylphosphorothioate	UNFI	10.000	ug/L	D	U	NA					NA				
Parathion	NA					UNFI	0.500	ug/L	C	UJ	UNFI	0.500	ug/L	C	U
Pentachlorobenzene	UNFI	20.000	ug/L	D	UJ	NA					NA				
Pentachloroethane	UNFI	20.000	ug/L	D	UJ	NA					NA				
Pentachloronitrobenzene	UNFI	20.000	ug/L	D	UJ	NA					NA				
Pentachlorophenol	UNFI	50.000	ug/L	D	R	UNFI	50.000	ug/L	D	UJ	UNFI	50.000	ug/L	D	U
Phenacetin	UNFI	10.000	ug/L	D	UJ	NA					NA				
Phenanthrene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Phenol	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Pronamide	UNFI	30.000	ug/L	D	UJ	NA					NA				
Pyrene	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
Safrole	UNFI	10.000	ug/L	D	UJ	NA					NA				
a,a-Dimethylphenethylamine	UNFI	10.000	ug/L	D	UJ	NA					NA				
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	D	R	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	UJ
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	D	R	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	UJ
bis(2-Ethylhexyl) phthalate	UNFI	4.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U
o-Toluidine	UNFI	10.000	ug/L	D	UJ	NA					NA				
p-Chloroaniline	UNFI	10.000	ug/L	D	UJ	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	R

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 066570				2037 003249 DUPLICATE 06/01/88				2052 003587						
SAMPLING DATE	08/25/88								09/13/88						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
p-Dimethylaminoazobenzene	UNFI	30.000	ug/L	D	U		NA					NA			
p-Phenylenediamine	UNFI	50.000	ug/L	D	UJ		NA					NA			
<u>Herbicide Organics</u>															
2,4,5-T	UNFI	5.000	ug/L	D	R		NA					NA			
2,4,5-TP (Silvex)	UNFI	0.025	ug/L	D	R		NA					NA			
2,4-D	UNFI	0.050	ug/L	D	R		NA					NA			
Dinoseb	UNFI	20.000	ug/L	D	U		NA					NA			
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD	UNFI	0.400	ug/L	D	U	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	D	U
4,4'-DDE	UNFI	0.400	ug/L	D	U	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	D	U
4,4'-DDT	UNFI	0.400	ug/L	D	U	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	D	U
Aldrin	UNFI	0.200	ug/L	D	U	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	D	U
Aroclor-1016	UNFI	2.000	ug/L	D	U	UNFI	0.500	ug/L	D	U	UNFI	0.500	ug/L	D	U
Aroclor-1221	UNFI	0.500	ug/L	D	R	UNFI	0.500	ug/L	D	U	UNFI	0.500	ug/L	D	U
Aroclor-1221	UNKN	2.000	ug/L	D	U	NA					NA				
Aroclor-1232	UNFI	2.000	ug/L	D	U	UNFI	0.500	ug/L	D	U	UNFI	0.500	ug/L	D	U
Aroclor-1242	UNFI	2.000	ug/L	D	U	UNFI	0.500	ug/L	D	U	UNFI	0.500	ug/L	D	U
Aroclor-1248	UNFI	2.000	ug/L	D	U	UNFI	0.500	ug/L	D	U	UNFI	0.500	ug/L	D	U
Aroclor-1254	UNFI	4.000	ug/L	D	U	UNFI	1.000	ug/L	D	U	UNFI	1.000	ug/L	D	U
Aroclor-1260	UNFI	4.000	ug/L	D	U	UNFI	1.000	ug/L	D	U	UNFI	1.000	ug/L	D	U
Aroclor-1260	UNKN	1.000	ug/L	D	R	NA					NA				
Azinphosmethyl	NA					UNFI	5.000	ug/L	C	UJ	UNFI	5.000	ug/L	C	U
Demeton	NA					UNFI	1.000	ug/L	C	UJ	UNFI	0.500	ug/L	C	U
Diazinon	NA					UNFI	0.500	ug/L	C	UJ	UNFI	0.500	ug/L	C	U
Dieldrin	UNFI	0.400	ug/L	D	U	UNFI	0.050	ug/L	D	U	UNFI	0.100	ug/L	D	U
Disulfoton	NA					UNFI	0.500	ug/L	C	UJ	UNFI	0.500	ug/L	C	U
Endosulfan II	UNFI	0.400	ug/L	D	U	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	D	U
Endosulfan sulfate	UNFI	0.400	ug/L	D	U	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	D	U
Endosulfan-I	UNFI	0.200	ug/L	D	U	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	D	U
Endrin	UNFI	0.400	ug/L	D	U	UNFI	0.050	ug/L	D	U	UNFI	0.100	ug/L	D	U
Endrin ketone	UNFI	0.400	ug/L	D	U	UNFI	0.100	ug/L	D	U	UNFI	0.100	ug/L	D	U
Ethion	NA					UNFI	0.500	ug/L	C	UJ	UNFI	0.500	ug/L	C	U
Heptachlor	UNFI	0.200	ug/L	D	U	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	D	U
Heptachlor epoxide	UNFI	0.200	ug/L	D	U	UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	D	U
Isodrin	UNFI	0.200	ug/L	D	U	NA					NA				
Kepone	UNFI	0.400	ug/L	D	U	NA					NA				
Malathion	NA					UNFI	1.000	ug/L	C	UJ	UNFI	0.500	ug/L	C	U
Methoxychlor	UNFI	2.000	ug/L	D	U	NA					UNFI	0.500	ug/L	D	U

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 066570				2037 003249 DUPLICATE 06/01/88				2052 003587								
SAMPLING DATE	08/25/89								09/13/88								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
<u>Pesticide Organics/PCBs</u>																	
Methoxychlor																	
Toxaphene	UNFI	NA	4.000	ug/L	D	U	UNKN	0.500	ug/L	D	U	UNFI	NA	1.000	ug/L	D	U
Toxaphene		NA					UNKN	1.000	ug/L	D	U		NA				
alpha-BHC	UNFI	0.200	ug/L	D	R		UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	D	U	
alpha-Chlordane	UNFI	0.500	ug/L	D	U		UNFI	0.500	ug/L	D	U	UNFI	0.500	ug/L	D	U	
alpha-Chlordane	UNKN	2.000	ug/L	D	U		NA						NA				
beta-BHC	UNFI	0.200	ug/L	D	U		UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	D	U	
delta-BHC	UNFI	0.200	ug/L	D	U		UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	D	U	
gamma-BHC (Lindane)	UNFI	0.200	ug/L	D	U		UNFI	0.050	ug/L	D	U	UNFI	0.050	ug/L	D	U	
gamma-Chlordane	UNFI	2.000	ug/L	D	U		UNFI	0.500	ug/L	D	U	UNFI	0.500	ug/L	D	U	
<u>Dioxin/Furan</u>																	
2,3,7,8-TCDD	UNFI	0.001	ug/L	E	U		UNFI	0.008	ug/L	C	NV	UNFI	0.001	ug/L	C	U	
2,3,7,8-TCDF		NA					UNFI	0.006	ug/L	C	NV	UNFI	0.000	ug/L	C	U	
Heptachlorodibenzo-p-dioxin		NA					UNFI	0.001	ug/L	C	U	UNFI	0.000	ug/L	C	U	
Heptachlorodibenzofuran		NA					UNFI	0.001	ug/L	C	U	UNFI	0.000	ug/L	C	U	
Hexachlorodibenzo-p-dioxin	UNFI	0.000	ug/L	E	U		NA					NA					
Hexachlorodibenzo-p-dioxins		NA					UNFI	0.002	ug/L	C	U	UNFI	0.001	ug/L	C	U	
Hexachlorodibenzofuran	UNFI	0.000	ug/L	E	-		UNFI	0.002	ug/L	C	U	UNFI	0.000	ug/L	C	U	
Octachlorodibenzo-p-dioxin		NA					UNFI	0.003	ug/L	C	U	UNFI	0.001	ug/L	C	U	
Octachlorodibenzofuran		NA					UNFI	0.006	ug/L	C	U	UNFI	0.001	ug/L	C	U	
Pentachlorodibenzo-p-dioxin	UNFI	0.000	ug/L	E	UJ		UNFI	0.001	ug/L	C	U	UNFI	0.001	ug/L	C	U	
Pentachlorodibenzofuran	UNFI	0.000	ug/L	E	-		UNFI	0.002	ug/L	C	U	UNFI	0.000	ug/L	C	U	
Tetrachlorodibenzo-p-dioxin	UNKN	0.000	ug/L	E	UJ		NA	0.001	ug/L	C	U	UNFI	0.001	ug/L	C	U	
Tetrachlorodibenzofuran	UNFI	0.000	ug/L	E	-		UNFI	0.002	ug/L	C	U	UNFI	0.001	ug/L	C	U	
<u>General Chemistry</u>																	
Ammonia		NA					UNFI	0.410	mg/L	C	UJ	UNFI	0.320	mg/L	C	-	
Chloride		NA					UNFI	29.500	mg/L	C	-	UNFI	30.000	mg/L	C	-	
Fluoride		NA					UNFI	0.510	mg/L	C	-	UNFI	0.320	mg/L	C	-	
Nitrate		NA					UNFI	0.150	mg/L	C	J	UNFI	0.170	mg/L	C	R	
Phenols		NA					UNFI	0.150	mg/L	C	J	UNFI	0.020	mg/L	C	J	
Phosphorus		NA					UNFI	0.320	mg/L	C	-	UNFI	0.010	mg/L	C	U	
Sulfate		NA					UNFI	165.000	mg/L	C	-	UNKN	NA	NA			
Sulfate		NA					NA					UNKN	178.000	mg/L	C	-	
Sulfide		NA					NA					NA	NA	NA			
Total Kjeldahl Nitrogen	UNFI	0.500	mg/L	C	UJ		UNFI	1.000	mg/L	C	J	UNFI	0.050	mg/L	C	U	
Total Organic Halides		NA					UNFI	NA				UNFI	0.400	mg/L	C	-	
Total Organic Nitrogen		NA					UNFI	1.000	mg/L	C	J	UNFI	0.050	mg/L	C	U	

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2052 003791	2052 003892	2052 003476 DUPLICATE 12/16/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Arsenic	FILT	0.002 mg/L C UJ	FILT	0.002 mg/L C UJ	FILT	0.002 mg/L C UJ
Barium	FILT	0.150 mg/L C -	FILT	0.138 mg/L C J	FILT	0.156 mg/L C -
Cadmium	FILT	0.002 mg/L C U	FILT	0.007 mg/L C J	FILT	0.002 mg/L C U
Calcium	FILT	146.000 mg/L C -	FILT	142.000 mg/L C J	FILT	147.000 mg/L C -
Chromium	FILT	0.020 mg/L C U	FILT	0.031 mg/L C J	FILT	0.020 mg/L C U
Copper	FILT	0.010 mg/L C U	FILT	0.012 mg/L C J	FILT	0.010 mg/L C U
Iron	FILT	4.210 mg/L C J	FILT	3.770 mg/L C J	FILT	4.190 mg/L C J
Lead	FILT	0.002 mg/L C UJ	FILT	0.002 mg/L C UJ	FILT	0.002 mg/L C UJ
Magnesium	FILT	32.600 mg/L C -	FILT	32.900 mg/L C J	FILT	32.600 mg/L C -
Manganese	FILT	0.270 mg/L C -	FILT	0.247 mg/L C J	FILT	0.259 mg/L C -
Mercury	FILT	0.000 mg/L C U	FILT	0.000 mg/L C UJ	FILT	0.000 mg/L C U
Molybdenum	FILT	0.048 mg/L C U	FILT	0.020 mg/L C UJ	FILT	0.027 mg/L C U
Nickel	FILT	0.020 mg/L C U	FILT	0.020 mg/L C UJ	FILT	0.020 mg/L C U
Potassium	FILT	0.917 mg/L C -	FILT	1.160 mg/L C J	FILT	0.917 mg/L C -
Selenium	FILT	0.002 mg/L C UJ	FILT	0.004 mg/L C J	FILT	0.002 mg/L C UJ
Silver	FILT	0.001 mg/L C R	FILT	0.001 mg/L C UJ	FILT	0.001 mg/L C R
Sodium	FILT	14.800 mg/L C -	FILT	14.200 mg/L C J	FILT	15.100 mg/L C -
<u>General Chemistry</u>						
Ammonia	UNFI	0.680 mg/L C -	UNFI	0.320 mg/L C J	UNFI	0.530 mg/L C -
Chloride	UNFI	12.000 mg/L C J	UNFI	22.000 mg/L C J	UNFI	8.000 mg/L C J
Fluoride	UNFI	0.360 mg/L C -	UNFI	0.230 mg/L C J	UNFI	0.320 mg/L C -
Nitrate	UNFI	0.100 mg/L C R	UNFI	0.100 mg/L C R	UNFI	0.100 mg/L C R
Phenols	UNFI	0.010 mg/L C U	UNFI	0.010 mg/L C UJ	UNFI	0.010 mg/L C U
Phosphorus	UNFI	6.990 mg/L C -	UNFI	0.480 mg/L C J	UNFI	1.890 mg/L C -
Sulfate	UNFI	125.000 mg/L C J	UNFI	153.000 mg/L C J	UNFI	120.000 mg/L C J
Total Kjeldahl Nitrogen	UNFI	3.630 mg/L C J	UNFI	0.651 mg/L C J	UNFI	1.940 mg/L C J
Total Organic Halides	UNFI	0.017 mg/L C J	UNFI	0.018 mg/L C J	UNFI	0.018 mg/L C J
Total Organic Nitrogen	UNFI	2.950 mg/L C -	UNFI	0.331 mg/L C J	UNFI	1.410 mg/L C -

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3037 003152				3037 003447				3037 003717							
SAMPLING DATE	05/05/88				08/08/88				11/18/88							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																
Arsenic		NA				*F	0.010	mg/L	D	R		NA	0.002	mg/L	C	UJ
Arsenic	FILT	0.200	mg/L	C	U	*F	0.200	mg/L	D	R	FILT	NA	0.049	mg/L	C	-
Barium		NA				*F	0.005	mg/L	D	R	FILT	NA	0.002	mg/L	C	U
Barium	FILT	0.060	mg/L	C	-	*F	280.000	mg/L	D	R	FILT	NA	291.000	mg/L	C	-
Cadmium		NA				*F	0.010	mg/L	D	R	FILT	NA	0.020	mg/L	C	U
Cadmium	FILT	0.005	mg/L	C	U	*F	0.030	mg/L	D	R	FILT	NA	0.010	mg/L	C	U
Calcium		NA				*F	15.000	mg/L	D	R	FILT	NA	16.900	mg/L	C	-
Calcium	FILT	254.000	mg/L	C	-	*F	NA	mg/L	D	R	FILT	NA	0.005	mg/L	D	R
Chromium		NA				*F	0.005	mg/L	D	R	FILT	NA	0.002	mg/L	C	R
Chromium	FILT	0.020	mg/L	C	U	*F	61.000	mg/L	D	R	FILT	NA	67.200	mg/L	C	-
Copper		NA				*F	0.680	mg/L	D	R	FILT	NA	0.722	mg/L	C	-
Copper	FILT	0.010	mg/L	C	U	*F	0.000	mg/L	C	R	FILT	NA	0.000	mg/L	C	U
Iron		NA				*F	0.050	mg/L	D	R	FILT	NA	0.020	mg/L	C	U
Iron	FILT	3.020	mg/L	C	-	*F	12.000	mg/L	D	R	FILT	NA	0.020	mg/L	C	U
Lead		NA				*F	0.005	mg/L	D	R	FILT	NA	0.002	mg/L	C	R
Lead	FILT	0.050	mg/L	C	U	*F	0.005	mg/L	D	R	FILT	NA	0.002	mg/L	C	UJ
Magnesium		NA				*F	0.005	mg/L	D	R	FILT	NA	0.002	mg/L	C	U
Magnesium	FILT	61.300	mg/L	C	-	*F	0.005	mg/L	D	R	FILT	NA	0.002	mg/L	C	-
Manganese		NA				*F	0.040	mg/L	D	R	FILT	NA	0.001	mg/L	C	U
Manganese	FILT	0.650	mg/L	C	-	*F	0.010	mg/L	D	R	FILT	NA	0.010	mg/L	C	UJ
Mercury		NA				*F	59.000	mg/L	D	R	FILT	NA	51.200	mg/L	C	-
Molybdenum		NA				*F	NA	mg/L	D	R	FILT	NA	NA	mg/L	C	-
Molybdenum	FILT	0.020	mg/L	C	U	*F	0.050	mg/L	D	R	FILT	NA	0.002	mg/L	C	U
Nickel		NA				*F	0.040	mg/L	D	R	FILT	NA	0.002	mg/L	C	U
Nickel	FILT	0.040	mg/L	C	-	*F	0.005	mg/L	D	R	FILT	NA	0.002	mg/L	C	R
Potassium		NA				*F	0.010	mg/L	D	R	FILT	NA	0.010	mg/L	C	U
Potassium	FILT	15.900	mg/L	C	-	*F	0.010	mg/L	D	R	FILT	NA	0.010	mg/L	C	UJ
Selenium		NA				*F	NA	mg/L	D	R	FILT	NA	NA	mg/L	C	-
Selenium	FILT	0.200	mg/L	C	U	*F	0.005	mg/L	D	R	FILT	NA	0.002	mg/L	C	UJ
Silver		NA				*F	NA	mg/L	D	R	FILT	NA	NA	mg/L	C	-
Silver	FILT	0.010	mg/L	C	U	*F	5.000	mg/L	C	UJ	FILT	NA	0.100	mg/L	C	R
Sodium		NA				*F	NA	mg/L	D	R	FILT	NA	0.010	mg/L	C	U
Sodium	FILT	62.700	mg/L	C	-	*F	NA	mg/L	D	R	FILT	NA	NA	mg/L	C	-
<u>General Chemistry</u>																
Ammonia	UNFI	1.820	mg/L	C	J	UNFI	13.000	mg/L	C	-	UNFI	18.800	mg/L	C	-	
Chloride	UNFI	4.000	mg/L	C	-	UNFI	230.000	mg/L	C	NV	UNFI	212.000	mg/L	C	-	
Fluoride	UNFI	0.350	mg/L	C	-	UNFI	0.100	mg/L	C	NV	UNFI	0.145	mg/L	C	-	
Nitrate	UNFI	0.100	mg/L	C	R	UNFI	5.000	mg/L	C	UJ	UNFI	0.100	mg/L	C	R	
Phenols	UNFI	0.010	mg/L	C	-	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U	

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3037 003152	3037 003447	3037 003717			
SAMPLING DATE	05/05/88	08/08/88	11/18/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Phosphate		NA		UNFI 0.880 mg/L C -		NA
Phosphorus	UNFI	0.100 mg/L C -		UNFI 440.000 mg/L C NV	UNFI	0.020 mg/L C U
Sulfate	UNFI	475.000 mg/L C -		NA	UNFI	394.000 mg/L C J
Total Kjeldahl Nitrogen	UNFI	3.390 mg/L C J		UNFI 0.050 mg/L D R	UNFI	22.800 mg/L C -
Total Organic Halides		NA		UNFI 0.100 mg/L C U	UNFI	0.550 mg/L C U
Total Organic Nitrogen	UNFI	1.570 mg/L C J			UNFI	4.000 mg/L C -

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3173TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3037	3037	3037			
SAMPLE NUMBER	003916	066462	066541			
SAMPLING DATE	02/22/89	06/28/89	08/25/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Aluminum	FILT	NA	UNKN	0.201 mg/L C -		NA
Arsenic	FILT	0.003 mg/L C UJ	UNKN	NA		NA
Barium	FILT	0.045 mg/L C J	UNKN	NA		NA
Barium		NA	UNKN	0.047 mg/L C -		NA
Beryllium		NA	UNKN	0.001 mg/L C U		NA
Cadmium	FILT	0.007 mg/L C J	UNKN	NA		NA
Calcium	FILT	280.000 mg/L C J	UNKN	NA		NA
Calcium		NA	UNKN	277.000 mg/L C -		NA
Chromium	FILT	0.050 mg/L C J	UNKN	NA		NA
Chromium		NA	UNKN	0.057 mg/L C -		NA
Cobalt		NA	UNKN	0.010 mg/L C U		NA
Copper	FILT	0.010 mg/L C J	UNKN	NA		NA
Copper		NA	UNKN	0.010 mg/L C U		NA
Iron	FILT	14.000 mg/L C J	UNKN	NA		NA
Iron		NA	UNKN	13.090 mg/L C -		NA
Lead	FILT	0.002 mg/L C UJ	UNKN	NA		NA
Lead		NA	UNKN	0.002 mg/L C -		NA
Magnesium	FILT	61.000 mg/L C J	UNKN	NA		NA
Magnesium		NA	UNKN	62.900 mg/L C -		NA
Manganese	FILT	0.700 mg/L C J	UNKN	NA		NA
Mercury	FILT	0.000 mg/L C UJ	UNKN	NA		NA
Molybdenum	FILT	0.020 mg/L C J	UNKN	NA		NA
Nickel	FILT	0.030 mg/L C UJ	UNKN	NA		NA
Nickel		NA	UNKN	0.028 mg/L C -		NA
Potassium	FILT	13.000 mg/L C J	UNKN	NA		NA
Selenium	FILT	0.005 mg/L C UJ	UNKN	NA		NA
Silver	FILT	0.010 mg/L C J	UNKN	NA		NA
Silver		NA	UNKN	0.021 mg/L C -		NA
Sodium	FILT	55.000 mg/L C J	UNKN	NA		NA
Vanadium		NA	UNKN	0.038 mg/L C -		NA
Zinc		NA	UNKN	0.267 mg/L C -		NA
<u>Volatile Organics</u>						
1,1-Dichloroethane		NA	UNFI	5.000 ug/L C UJ		NA
Acetone		NA	UNFI	8.000 ug/L C UJ		NA
Methylene chloride		NA	UNFI	5.000 ug/L C UU		NA
Tetrachloroethene		NA	UNFI	5.000 ug/L C UU		NA
Toluene		NA	UNFI	5.000 ug/L C UJ		NA
Trichloroethene		NA	UNFI	5.000 ug/L C U		NA
<u>General Chemistry</u>						
Ammonia	UNFI	16.000 mg/L C J	NA		NA	

TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3037	SAMPLE NUMBER	003916		3037	SAMPLE NUMBER	066462		3037	SAMPLE NUMBER	066541				
SAMPLING DATE	02/22/89				06/28/89				08/25/89						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Chloride	UNFI	200.000	mg/L	C	J	UNFI	206.000	mg/L	C	-	UNFI	250.000	mg/L	C	J
Fluoride	UNFI	0.100	mg/L	C	J	UNFI	0.100	mg/L	C	-	UNFI	0.100	mg/L	C	-
Nitrate	UNFI	0.020	mg/L	C	J	UNFI	1.320	mg/L	C	J	UNFI	0.582	mg/L	C	-
Phenols	UNFI	0.005	mg/L	C	UJ		NA					NA			
Phosphorus	UNFI	0.010	mg/L	C	J		NA					NA			
Sulfate	UNFI	390.000	mg/L	C	J	UNFI	467.000	mg/L	C	-	UNFI	475.000	mg/L	C	NV
Total Kjeldahl Nitrogen	UNFI	27.000	mg/L	C	J		NA					NA			
Total Organic Carbon		NA				UNFI	6.450	mg/L	C	U	UNFI	2.010	mg/L	C	-
Total Organic Halides	UNFI	0.027	mg/L	C	-	UNFI	0.010	mg/L	C	U	UNFI	0.013	mg/L	C	J
Total Organic Nitrogen	UNFI	12.000	mg/L	C	J		NA					NA			

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3037	3037			
SAMPLE NUMBER	066571	066928			
SAMPLING DATE	08/25/89	08/27/90			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	
<u>Inorganics</u>					
Aluminum	UNKN	0.224 mg/L D		NA	
Antimony	UNKN	0.030 ug/L D U		NA	
Arsenic	UNKN	0.002 ug/L D U		NA	
Barium	UNKN	0.052 ug/L D U		NA	
Beryllium	UNKN	0.002 ug/L D U		NA	
Cadmium	UNKN	0.009 ug/L D U		NA	
Calcium	UNKN	305.000 mg/L D U		NA	
Chromium	UNKN	0.037 ug/L D U		NA	
Cobalt	UNKN	0.010 ug/L D U		NA	
Copper	UNKN	0.010 ug/L D U		NA	
Cyanide	UNKN	0.005 ug/L D U		NA	
Iron	UNKN	14.600 mg/L D U		NA	
Lead	UNKN	0.003 ug/L D U		NA	
Magnesium	UNKN	65.700 mg/L D U		NA	
Manganese	UNKN	0.651 ug/L D U		NA	
Mercury	UNKN	0.000 ug/L D U		NA	
Nickel	UNKN	0.028 ug/L D U		NA	
Osmium	UNKN	0.050 ug/L D U		NA	
Potassium	UNKN	13.000 mg/L D U		NA	
Selenium	UNKN	0.002 ug/L D U		NA	
Silver	UNKN	0.011 ug/L D U		NA	
Sodium	UNKN	57.100 mg/L D U		NA	
Thallium	UNKN	0.001 ug/L D U		NA	
Tin	UNKN	0.030 ug/L D U		NA	
Vanadium	UNKN	0.034 ug/L D U		NA	
Zinc	UNKN	0.039 ug/L D U		NA	
<u>Volatile Organics</u>					
1,1,1,2-Tetrachloroethane	UNFI	5.000 ug/L D U		NA	
1,1,1-Trichloroethane	UNFI	5.000 ug/L D U		5.000 ug/L D U	
1,1,2,2-Tetrachloroethane	UNFI	5.000 ug/L D U		5.000 ug/L D U	
1,1,2-Trichloroethane	UNFI	5.000 ug/L D U		NA	
1,1,2,2-Tetrachloroethane	UNFI	5.000 ug/L D U		5.000 ug/L D U	
1,1-Dichloroethane	UNFI	5.000 ug/L D U		NA	
1,1-Dichloroethane	NA			5.000 ug/L D U	
1,1-Dichloroethene	UNFI	5.000 ug/L D U		5.000 ug/L D U	
1,1-Dichloroethene	UNFI	5.000 ug/L D U		5.000 ug/L D U	
1,2,3-Trichloropropene	UNFI	5.000 ug/L D U		NA	
1,2-Dibromo-3-chloropropane	UNFI	10.000 ug/L D U		5.000 ug/L D U	
1,2-Dibromoethane	UNFI	5.000 ug/L D U		NA	
1,2-Dichloroethane	UNFI	5.000 ug/L D U		5.000 ug/L D U	
1,2-Dichloroethene	UNFI	5.000 ug/L D U		5.000 ug/L D U	

TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3037 066571				3037 066928			
SAMPLE NUMBER								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>								
1,2-Dichloropropane	UNFI	5.000	ug/L	D U	UNFI	5.000	ug/L	D U
1,4-Dioxane	UNFI	1000.000	ug/L	D U	NA			
2-Butanone	UNFI	10.000	ug/L	D UJ	UNFI	10.000	ug/L	D UJ
2-Chloro-1,3-butadiene	UNFI	5.000	ug/L	D NV	NA			
2-Hexanone	UNFI	10.000	ug/L	D UJ	UNFI	2.000	ug/L	D J
3-Chloropropene	UNFI	5.000	ug/L	D U	NA			
4-Methyl-2-pentanone	UNFI	10.000	ug/L	D UJ	UNFI	10.000	ug/L	D U
Acetone	UNFI	10.000	ug/L	D UJ	UNFI	29.000	ug/L	D -
Acetonitrile	UNFI	200.000	ug/L	D D	NA			
Acrolein	UNFI	10.000	ug/L	D D	NA			
Acrylonitrile	UNFI	10.000	ug/L	D D	NA			
Benzene	UNFI	5.000	ug/L	D D	UNFI	5.000	ug/L	D UJ
Bromodichloromethane	UNFI	5.000	ug/L	D D	UNFI	5.000	ug/L	D U
Bromoform	UNFI	5.000	ug/L	D D	UNFI	5.000	ug/L	D U
Bromomethane	UNFI	10.000	ug/L	D D	UNFI	10.000	ug/L	D UJ
Carbon Tetrachloride	UNFI	5.000	ug/L	D D	UNFI	5.000	ug/L	D UJ
Carbon disulfide	UNFI	5.000	ug/L	D D	UNFI	5.000	ug/L	D UJ
Chlorobenzene	UNFI	5.000	ug/L	D D	UNFI	5.000	ug/L	D UJ
Chloroethane	UNFI	10.000	ug/L	D D	UNFI	10.000	ug/L	D UJ
Chloroform	UNFI	5.000	ug/L	D D	UNFI	5.000	ug/L	D U
Chloromethane	UNFI	10.000	ug/L	D U	NA			
Chloromethane	NA				UNKN	10.000	ug/L	D U
Dibromochloromethane	UNFI	5.000	ug/L	D U	UNFI	5.000	ug/L	D U
Dibromomethane	UNFI	10.000	ug/L	D D	NA			
Dichlorodifluoromethane	UNFI	200.000	ug/L	D D	NA			
Ethyl cyanide	UNFI	100.000	ug/L	D UJ	NA			
Ethyl methacrylate	UNFI	10.000	ug/L	D D	NA			
Ethylbenzene	UNFI	5.000	ug/L	D UJ	NA			
Ethylbenzene	NA				UNKN	5.000	ug/L	D UJ
Iodomethane	UNFI	5.000	ug/L	D U	NA			
Isobutyl alcohol	UNFI	3000.000	ug/L	D D	NA			
Methacrylonitrile	UNFI	10.000	ug/L	D D	NA			
Methyl methacrylate	UNFI	10.000	ug/L	D D	NA			
Methylene chloride	UNFI	2.000	ug/L	D D	UNFI	11.000	ug/L	D U
Pyridine	UNFI	50000.000	ug/L	D D	NA			
Styrene	UNFI	5.000	ug/L	D UJ	UNFI	5.000	ug/L	D UJ
Tetrachloroethene	UNFI	5.000	ug/L	D D	UNFI	5.000	ug/L	D U
Toluene	UNFI	5.000	ug/L	D UJ	NA			
Toluene	NA				UNKN	5.000	ug/L	D UJ
Trichloroethene	UNFI	5.000	ug/L	D U	UNFI	5.000	ug/L	D U
Trichlorofluoromethane	UNFI	5.000	ug/L	D D	NA			
Vinyl Acetate	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3037 066571				3037 066928			
SAMPLING DATE	08/25/89				08/27/90			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>								
Vinyl chloride	UNFI	10,000	ug/L	D U	UNFI	10,000	ug/L	D U
Xylenes, Total	UNFI	5,000	ug/L	D UJ	UNFI	5,000	ug/L	D UJ
cis-1,3-Dichloropropene	UNFI	5,000	ug/L	D U	UNFI	5,000	ug/L	D U
trans-1,2-Dichloroethene	UNFI	5,000	ug/L	D NV	NA			
trans-1,3-Dichloropropene	UNFI	5,000	ug/L	D UJ	UNFI	5,000	ug/L	D U
trans-1,4-Dichloro-2-butene	UNFI	20,000	ug/L	D U	NA			
<u>Semivolatile Organics</u>								
1,2,4,5-Tetrachlorobenzene	UNFI	10,000	ug/L	D U	UNFI	NA		
1,2,4-Trichlorobenzene	UNFI	10,000	ug/L	D UU	UNFI	10,000	ug/L	D UU
1,2-Dichlorobenzene	UNFI	10,000	ug/L	D UUU	UNFI	10,000	ug/L	D UU
1,3,5-Trinitrobenzene	UNFI	10,000	ug/L	D UUU	UNFI	NA		
1,3-Dichlorobenzene	UNFI	10,000	ug/L	D UUU	UNFI	10,000	ug/L	D UU
1,3-Dinitrobenzene	UNFI	10,000	ug/L	D UUU	UNFI	NA		
1,4-Dichlorobenzene	UNFI	10,000	ug/L	D UUU	UNFI	10,000	ug/L	D UU
1,4-Naphthoquinone	UNFI	10,000	ug/L	D UUU	UNFI	NA		
1-Naphthylamine	UNFI	120,000	ug/L	D UUU	UNFI	NA		
2,3,4,6-Tetrachlorophenol	UNFI	10,000	ug/L	D UUU	UNFI	NA		
2,4,5-Trichlorophenol	UNFI	50,000	ug/L	D UU	UNFI	50,000	ug/L	D UU
2,4,6-Trichlorophenol	UNFI	10,000	ug/L	D U	UNFI	NA		
2,4,6-Trichlorophenol	NA				UNKN	10,000	ug/L	D U
2,4-Dichlorophenol	UNFI	10,000	ug/L	D U	UNFI	10,000	ug/L	D U
2,4-Dimethylphenol	UNFI	10,000	ug/L	D UU	UNFI	10,000	ug/L	D UU
2,4-Dinitrophenol	UNFI	50,000	ug/L	D UUU	UNFI	50,000	ug/L	D UUU
2,4-Dinitrotoluene	UNFI	10,000	ug/L	D UUU	UNFI	10,000	ug/L	D UUU
2,6-Dichlorophenol	UNFI	10,000	ug/L	D UUU	UNFI	NA		
2,6-Dinitrotoluene	UNFI	10,000	ug/L	D UUU	UNFI	10,000	ug/L	D UU
2-Acetylaminofluorene	UNFI	10,000	ug/L	D UUU	UNFI	NA		
2-Chloronaphthalene	UNFI	10,000	ug/L	D UUU	UNFI	10,000	ug/L	D UU
2-Chlorophenol	UNFI	10,000	ug/L	D UUU	UNFI	10,000	ug/L	D UUU
2-Methylnaphthalene	UNFI	10,000	ug/L	D UUU	UNFI	10,000	ug/L	D UUU
2-Methylphenol	UNFI	10,000	ug/L	D UUU	UNFI	10,000	ug/L	D UU
2-Naphthylamine	UNFI	170,000	ug/L	D UUU	UNFI	NA		
2-Nitroaniline	UNFI	50,000	ug/L	D UU	UNFI	50,000	ug/L	D UU
2-Nitrophenol	UNFI	10,000	ug/L	D UU	UNFI	10,000	ug/L	D UU
2-Picoline	UNFI	70,000	ug/L	D UU	UNFI	NA		
3,3'-Dichlorobenzidine	UNFI	20,000	ug/L	D UU	UNFI	20,000	ug/L	D UU
3,3'-Dimethylbenzidine	UNFI	80,000	ug/L	D UU	UNFI	NA		
3-Methylchoanthrene	UNFI	30,000	ug/L	D UU	UNFI	NA		
3-Methylphenol	UNFI	10,000	ug/L	D UU	UNFI	NA		
3-Nitroaniline	UNFI	50,000	ug/L	D UU	UNFI	50,000	ug/L	D UU

TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	3037 066571				3037 066928			
SAMPLING DATE	08/25/89				08/27/90			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>								
4,6-Dinitro-2-methylphenol	UNFI	50.000	ug/L	D U	UNFI	50.000	ug/L	D UJ
4-Aminobiphenyl	UNFI	50.000	ug/L	D UJ	NA			
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
4-Methylphenol	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
4-Nitroaniline	UNFI	50.000	ug/L	D UJ	UNFI	50.000	ug/L	D U
4-Nitrophenol	UNFI	50.000	ug/L	D U	UNFI	50.000	ug/L	D UJ
4-Nitroquinoline-1-oxide	UNFI	10.000	ug/L	D U	NA			
5-Nitro-o-tolidine	UNFI	20.000	ug/L	D U	NA			
7,12-Dimethylbenz(a)anthracene	UNFI	20.000	ug/L	D U	NA			
Acenaphthene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Acenaphthylene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Acetophenone	UNFI	10.000	ug/L	D U	NA			
Aniline	UNFI	10.000	ug/L	D U	NA			
Anthracene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Aramite	UNFI	10.000	ug/L	D U	NA			
Benzo(a)anthracene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Benzo(a)anthracene	UNKN	10.000	ug/L	D R	NA			
Benzo(a)pyrene	UNFI	10.000	ug/L	D U	NA			
Benzo(a)pyrene	NA				UNKN	10.000	ug/L	D U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D UJ
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Benzoic acid	NA				UNFI	50.000	ug/L	D U
Benzyl alcohol	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Butyl benzyl phthalate	UNFI	3.000	ug/L	D J	UNFI	10.000	ug/L	D UJ
Chrysene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Di-n-butyl phthalate	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Di-n-octyl phthalate	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Diallate	UNFI	10.000	ug/L	D UJ	NA			
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D UJ
Dibenzo-furan	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Diethyl phthalate	UNFI	2.000	ug/L	D J	UNFI	10.000	ug/L	D U
Dimethyl phthalate	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Diphenylamine	UNFI	10.000	ug/L	D U	NA			
Ethyl methanesulfonate	UNFI	10.000	ug/L	D U	NA			
Fluoranthene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Fluorene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Hexachlorobenzene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Hexachlorobutadiene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	D U	UNFI	10.000	ug/L	D UJ

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3037				3037			
SAMPLE NUMBER	066571				066928			
SAMPLING DATE	08/25/89				08/27/90			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS
<u>Semivolatile Organics</u>								
Hexachloroethane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
Hexachlorophene	UNFI	500.000	ug/L	D	R	NA		
Hexachloropropene	UNFI	20.000	ug/L	D	U	NA		
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
Isophorone	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
Isosafrole	UNFI	10.000	ug/L	D	U	NA		
Methaphylenene	UNFI	40.000	ug/L	D	U	NA		
Methyl methanesulfonate	UNFI	10.000	ug/L	D	U	NA		
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
N-Nitrosodi-n-butylamine	UNFI	20.000	ug/L	D	U	NA		
N-Nitrosodiethylamine	UNFI	10.000	ug/L	D	U	NA		
N-Nitrosodimethylamine	UNFI	10.000	ug/L	D	U	NA		
N-Nitrosodiphenylamine	UNFI	3.000	ug/L	D	U	UNFI	10.000	ug/L
N-Nitrosomethylethylamine	UNFI	10.000	ug/L	D	U	NA		
N-Nitrosomorpholine	UNFI	10.000	ug/L	D	U	NA		
N-Nitrosopiperidine	UNFI	10.000	ug/L	D	U	NA		
N-Nitrosopyrrolidine	UNFI	10.000	ug/L	D	U	NA		
Naphthalene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
Nitrobenzene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
O,O-Triethylphosphorothioate	UNFI	10.000	ug/L	D	U	NA		
Pentachlorobenzene	UNFI	20.000	ug/L	D	U	NA		
Pentachloroethane	UNFI	20.000	ug/L	D	U	NA		
Pentachloronitrobenzene	UNFI	20.000	ug/L	D	U	NA		
Pentachlorophenol	UNFI	50.000	ug/L	D	U	UNFI	50.000	ug/L
Phenacetin	UNFI	10.000	ug/L	D	U	NA		
Phenanthrene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
Phenol	UNFI	17.000	ug/L	D	U	UNFI	10.000	ug/L
Pronamide	UNFI	30.000	ug/L	D	U	NA		
Pyrene	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
Safrole	UNFI	10.000	ug/L	D	U	NA		
a,a-Dimethylphenethylamine	UNFI	10.000	ug/L	D	U	NA		
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
bis(2-Ethylhexyl) phthalate	UNFI	5.000	ug/L	D	U	UNFI	4.000	ug/L
o-Tolidine	UNFI	10.000	ug/L	D	U	NA		
p-Chloroaniline	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L
p-Dimethylaminoazobenzene	UNFI	30.000	ug/L	D	U	NA		
p-Phenylenediamine	UNFI	50.000	ug/L	D	U	NA		
<u>Herbicide Organics</u>								
2,4,5-T	UNFI	5.000	ug/L	D	R	NA		

TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3037			3037		
SAMPLE NUMBER	066571			066928		
SAMPLING DATE	08/25/89			08/27/90		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD
<u>Herbicide Organics</u>						
2,4,5-TP (Silvex)	UNFI	0.025	ug/L	D	R	NA
2,4-D	UNFI	0.050	ug/L	D	R	NA
Dinoseb	UNFI	20.000	ug/L	D	U	NA
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	UNFI	0.300	ug/L	D	U	NA
4,4'-DDE	UNFI	0.300	ug/L	D	U	NA
4,4'-DDT	UNFI	0.300	ug/L	D	U	NA
Aldrin	UNFI	0.150	ug/L	D	U	NA
Aroclor-1016	UNFI	1.500	ug/L	D	U	NA
Aroclor-1016	UNKN	0.500	ug/L	D	R	NA
Aroclor-1221	UNFI	1.500	ug/L	D	U	NA
Aroclor-1232	UNFI	1.500	ug/L	D	U	NA
Aroclor-1242	UNFI	1.500	ug/L	D	U	NA
Aroclor-1248	UNFI	1.500	ug/L	D	U	NA
Aroclor-1254	UNFI	1.000	ug/L	D	U	NA
Aroclor-1254	UNKN	3.000	ug/L	D	U	NA
Aroclor-1260	UNFI	3.000	ug/L	D	U	NA
Dieledrin	UNFI	0.300	ug/L	D	U	NA
Endosulfan II	UNFI	0.300	ug/L	D	U	NA
Endosulfan sulfate	UNFI	0.300	ug/L	D	U	NA
Endosulfan-I	UNFI	0.150	ug/L	D	U	NA
Endrin	UNFI	0.300	ug/L	D	U	NA
Endrin ketone	UNFI	0.300	ug/L	D	U	NA
Heptachlor	UNFI	0.150	ug/L	D	U	NA
Heptachlor epoxide	UNFI	0.150	ug/L	D	U	NA
Isodrin	UNFI	0.150	ug/L	D	U	NA
Kepone	UNFI	0.100	ug/L	D	R	NA
Kepone	UNKN	0.300	ug/L	D	U	NA
Methoxychlor	UNFI	1.500	ug/L	D	U	NA
Toxaphene	UNFI	3.000	ug/L	D	U	NA
alpha-BHC	UNFI	0.150	ug/L	D	U	NA
alpha-Chlordane	UNFI	1.500	ug/L	D	U	NA
beta-BHC	UNFI	0.150	ug/L	D	U	NA
delta-BHC	UNFI	0.150	ug/L	D	U	NA
gamma-BHC (Lindane)	UNFI	0.150	ug/L	D	U	NA
gamma-Chlordane	UNFI	1.500	ug/L	D	U	NA
<u>Dioxin/Furan</u>						
1,2,3,4,7,8-Hexachlorodibenzofuran	UNFI	0.000	ug/L	E	U	NA

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TABLE C-12A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	3037	3037		
SAMPLE NUMBER	066571	066928		
SAMPLING DATE	08/25/89	08/27/90		
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Dioxin Furan</u>				
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	UNFI	0.000 ug/L E		NA
1,2,3,7,8-Pentachlorodibenzofuran	UNFI	0.000 ug/L E		NA
2,3,7,8-TCDD	UNFI	0.001 ug/L E		NA
Hexachlorodibenzo-p-dioxin	UNFI	0.000 ug/L E		NA
Hexachlorodibenzofuran	UNFI	0.000 ug/L E		NA
Pentachlorodibenzo-p-dioxin	UNFI	0.001 ug/L E		NA
Pentachlorodibenzofuran	UNFI	0.000 ug/L E		NA
Tetrachlorodibenzo-p-dioxin	UNFI	0.004 ug/L E		NA
Tetrachlorodibenzofuran	UNFI	0.001 ug/L E		NA
<u>General Chemistry</u>				
Sulfide	UNFI	0.500 mg/L C UJ		NA

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TABLE C-12A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1035 111552				1035 111553				1038 111548				
SAMPLING DATE	05/05/93				05/05/93				05/05/93				
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	
CS-137		NA			FILT	16.100	pCi/L	UJ		NA			
CS-137	UNFI	12.000	pCi/L	UJ		NA			UNFI	10.400	pCi/L	UJ	
GROSS ALPHA	UNFI	7.170	pCi/L	UJ		NA			UNFI	8.970	pCi/L	UJ	
GROSS BETA	UNFI	4.950	pCi/L	UJ		NA			UNFI	6.270	pCi/L	UJ	
NP-237		NA			FILT	0.380	pCi/L	R		NA			
NP-237	UNFI	0.300	pCi/L	N		NA	0.160	pCi/L	UJ	UNFI	0.120	pCi/L	R
PU-238	UNFI	0.670	pCi/L	J	FILT	NA			UNFI	NA			
PU-238	UNFI	NA			FILT	0.380	pCi/L	-	UNFI	0.090	pCi/L	UJ	
PU-239/240	UNFI	0.110	pCi/L	UJ		NA			UNFI	NA			
PU-239/240	UNFI	NA			FILT	0.130	pCi/L	UJ	UNFI	0.090	pCi/L	UJ	
RA-226	UNFI	0.160	pCi/L	UJ		NA			UNFI	NA			
RA-226	UNFI	NA			FILT	2.070	pCi/L	U	UNFI	0.180	pCi/L	UJ	
RA-228	UNFI	1.390	pCi/L	UJ		NA			UNFI	NA			
RU-106	UNFI	NA			FILT	121.000	pCi/L	UJ	UNFI	1.760	pCi/L	UJ	
RU-106	UNFI	121.000	pCi/L	UJ		NA			UNFI	137.000	pCi/L	UJ	
SR-90	UNFI	NA			FILT	1.100	pCi/L	U	UNFI	NA			
SR-90	UNFI	0.840	pCi/L	UJ		NA			UNFI	0.780	pCi/L	UJ	
TC-99	UNFI	NA			FILT	9.600	pCi/L	UJ	UNFI	NA			
TC-99	UNFI	11.100	pCi/L	UJ		NA			UNFI	10.900	pCi/L	UJ	
TH-228	UNFI	NA			FILT	0.540	pCi/L	UJ	UNFI	NA			
TH-228	UNFI	0.200	pCi/L	UJ		NA			UNFI	0.200	pCi/L	UJ	
TH-230	UNFI	NA			FILT	0.710	pCi/L	-	UNFI	NA			
TH-230	UNFI	0.200	pCi/L	UJ		NA			UNFI	0.260	pCi/L	J	
TH-232	UNFI	NA			FILT	0.280	pCi/L	UJ	UNFI	NA			
TH-232	UNFI	0.190	pCi/L	UJ		NA			UNFI	0.140	pCi/L	UJ	
TH-TOTAL	UNFI	NA			FILT	2.580	ug/L	UJ	UNFI	NA			
TH-TOTAL	UNFI	1.680	ug/L	UJ		NA			UNFI	1.250	ug/L	UJ	
U-234	UNFI	NA			FILT	1.110	pCi/L	-	UNFI	NA			
U-234	UNFI	1.100	pCi/L	-		NA			UNFI	2.340	pCi/L	-	
U-235/236	UNFI	NA			FILT	0.160	pCi/L	UJ	UNFI	NA			
U-235/236	UNFI	0.060	pCi/L	UJ		NA			UNFI	0.120	pCi/L	UJ	
U-238	UNFI	NA			FILT	0.840	pCi/L	-	UNFI	NA			
U-238	UNFI	0.670	pCi/L	J		NA			UNFI	1.560	pCi/L	-	
U-TOTAL	UNFI	NA			FILT	2.550	ug/L	-	UNFI	NA			
U-TOTAL	UNFI	2.050	ug/L	-		NA			UNFI	4.110	ug/L	-	

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 TABLE C-12A
 (Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1038 111549			1950 115480 DUPLICATE 06/08/93			1950 115481					
SAMPLING DATE	05/05/93						06/08/93					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	FILT	15.700	pCi/L	UJ	UNFI	10.600	pCi/L	UJ	UNFI	15.200	pCi/L	UJ
CS-137		NA			UNFI	13.100	pCi/L	UJ	UNFI	53.900	pCi/L	UJ
GROSS ALPHA		NA			UNFI	7.540	pCi/L	UJ	UNFI	64.000	pCi/L	J
GROSS BETA		NA			NA				NA			
NP-237	FILT	0.480	pCi/L	N	UNFI	0.961	pCi/L	U	UNFI	1.940	pCi/L	N
NP-237		NA			UNFI	0.125	pCi/L	UJ	UNFI	0.144	pCi/L	J
PU-238	FILT	0.060	pCi/L	UJ	UNFI	NA			UNFI	NA		
PU-238		NA			UNFI	0.237	pCi/L	U	UNFI	0.422	pCi/L	U
PU-239/240	FILT	0.160	pCi/L	-	UNFI	NA			UNFI	NA		
PU-239/240		NA			UNFI	0.168	pCi/L	UJ	UNFI	0.821	pCi/L	J
RA-226	FILT	0.150	pCi/L	J	UNFI	NA			UNFI	NA		
RA-226		NA			UNFI	1.940	pCi/L	UJ	UNFI	1.350	pCi/L	UJ
RA-228	FILT	1.160	pCi/L	UJ	UNFI	NA			UNFI	NA		
RA-228		NA			UNFI	114.000	pCi/L	UJ	UNFI	144.000	pCi/L	UJ
RU-106	FILT	114.000	pCi/L	UJ	UNFI	NA			UNFI	NA		
RU-106		NA			UNFI	128.000	pCi/L	UJ	UNFI	NA		
SR-90	FILT	1.080	pCi/L	U	UNFI	NA			UNFI	NA		
SR-90		NA			UNFI	0.744	pCi/L	UJ	UNFI	0.774	pCi/L	UJ
TC-99	FILT	11.000	pCi/L	UJ	UNFI	NA			UNFI	NA		
TC-99		NA			UNFI	11.420	pCi/L	UJ	UNFI	10.880	pCi/L	UJ
TH-228	FILT	0.250	pCi/L	U	UNFI	NA			UNFI	NA		
TH-228		NA			UNFI	0.221	pCi/L	UJ	UNFI	0.566	pCi/L	J
TH-230	FILT	0.290	pCi/L	-	UNFI	NA			UNFI	NA		
TH-230		NA			UNFI	0.221	pCi/L	UJ	UNFI	1.030	pCi/L	-
TH-232	FILT	0.200	pCi/L	UJ	UNFI	NA			UNFI	NA		
TH-232		NA			UNFI	0.145	pCi/L	UJ	UNFI	0.654	pCi/L	J
TH-TOTAL	FILT	1.840	ug/L	UJ	UNFI	NA			UNFI	NA		
TH-TOTAL		NA			UNFI	1.330	ug/L	UJ	UNFI	5.960	ug/L	-
U-234	FILT	2.300	pCi/L	-	UNFI	NA			UNFI	NA		
U-234		NA			UNFI	3.500	pCi/L	-	UNFI	5.060	pCi/L	-
U-235/236	FILT	0.050	pCi/L	J	UNFI	NA			UNFI	NA		
U-235/236		NA			UNFI	0.208	pCi/L	-	UNFI	0.132	pCi/L	UJ
U-238	FILT	1.670	pCi/L	-	UNFI	NA			UNFI	NA		
U-238		NA			UNFI	2.820	pCi/L	-	UNFI	4.830	pCi/L	-
U-TOTAL	FILT	4.950	ug/L	-	UNFI	NA			UNFI	NA		
U-TOTAL		NA			UNFI	7.670	ug/L	-	UNFI	11.000	ug/L	-

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TABLE C-12A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1952 115468				1952 115471				2027 111543			
SAMPLING DATE	05/15/93				05/15/93				04/23/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	13.000	pCi/L	UJ	UNFI	18.000	pCi/L	UJ	UNFI	14.400	pCi/L	UJ
GROSS ALPHA	UNFI	25.600	pCi/L	UJ	UNFI	92.100	pCi/L	UJ	UNFI	18.500	pCi/L	UJ
GROSS BETA	UNFI	13.300	pCi/L	UJ	UNFI	178.000	pCi/L	UJ	UNFI	12.600	pCi/L	UJ
NP-237	UNFI	0.179	pCi/L	RJ	UNFI	0.249	pCi/L	CJ	UNFI	0.121	pCi/L	CJ
PU-238	UNFI	0.069	pCi/L	UJ	UNFI	0.169	pCi/L	CJ	UNFI	0.166	pCi/L	CJ
PU-239/240	UNFI	0.069	pCi/L	UJ	UNFI	0.153	pCi/L	CJ	UNFI	0.183	pCi/L	CJ
RA-226	UNFI	0.193	pCi/L	JJ	UNFI	5.110	pCi/L	CJ	UNFI	0.649	pCi/L	CJ
RA-228	UNFI	1.340	pCi/L	JJ	UNFI	3.720	pCi/L	CJ	UNFI	1.470	pCi/L	CJ
RU-106	UNFI	123.000	pCi/L	JJ	UNFI	126.000	pCi/L	CJ	UNFI	132.000	pCi/L	CJ
SR-90	UNFI	0.900	pCi/L	JJ	UNFI	1.350	pCi/L	CJ	UNFI	1.540	pCi/L	CJ
TC-99	UNFI	8.300	pCi/L	JJ	UNFI	8.100	pCi/L	CJ	UNFI	9.700	pCi/L	CJ
TH-228	UNFI	0.323	pCi/L	JJ	UNFI	14.000	pCi/L	CJ	UNFI	0.269	pCi/L	CJ
TH-230	UNFI	0.335	pCi/L	JJ	UNFI	13.800	pCi/L	CJ	UNFI	0.313	pCi/L	CJ
TH-232	UNFI	0.094	pCi/L	JJ	UNFI	11.500	pCi/L	CJ	UNFI	0.184	pCi/L	CJ
TH-TOTAL	UNFI	0.865	ug/L	JJ	UNFI	104.000	ug/L	CJ	UNFI	1.690	ug/L	CJ
U-234	UNFI	4.870	pCi/L	-	UNFI	12.000	pCi/L	-	UNFI	4.740	pCi/L	-
U-235/236	UNFI	0.412	pCi/L	-	UNFI	0.432	pCi/L	-	UNFI	0.277	pCi/L	-
U-238	UNFI	6.770	pCi/L	-	UNFI	15.200	pCi/L	-	UNFI	3.690	pCi/L	-
U-TOTAL	UNFI	15.800	ug/L	-	UNFI	55.800	ug/L	-	UNFI	9.150	ug/L	-

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TABLE C-12A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 111540			2052 111546			2947 111572 DUPLICATE 05/19/93					
SAMPLING DATE	04/22/93			04/29/93								
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	12.600	pCi/L	UJ	UNFI	11.300	pCi/L	UJ	UNFI	13.000	pCi/L	UJ
GROSS ALPHA	UNFI	8.940	pCi/L	UJ	UNFI	8.700	pCi/L	UJ	UNFI	10.480	pCi/L	UJ
GROSS BETA	UNFI	6.370	pCi/L	UJ	UNFI	6.100	pCi/L	UJ	UNFI	7.520	pCi/L	UJ
NP-237	UNFI	0.050	pCi/L	R	UNFI	0.292	pCi/L	UJ	UNFI	0.093	pCi/L	R
PU-238	UNFI	0.100	pCi/L	UJ	UNFI	0.155	pCi/L	J	UNFI	0.066	pCi/L	J
PU-239/240	UNFI	0.055	pCi/L	UJ	UNFI	0.133	pCi/L	UJ	UNFI	0.093	pCi/L	UJ
RA-226	UNFI	0.430	pCi/L	J	UNFI	0.222	pCi/L	J	UNFI	1.210	pCi/L	J
RA-228	UNFI	2.120	pCi/L	UJ	UNFI	1.460	pCi/L	UJ	UNFI	3.280	pCi/L	Z
RU-106	UNFI	117.000	pCi/L	UJ	UNFI	96.000	pCi/L	UJ	UNFI	125.000	pCi/L	UJ
SR-90	UNFI	2.100	pCi/L	J	UNFI	0.951	pCi/L	UJ	UNFI	1.210	pCi/L	J
TC-99	UNFI	8.100	pCi/L	UJ	UNFI	8.800	pCi/L	UJ	UNFI	11.000	pCi/L	UJ
TH-228	UNFI	0.310	pCi/L	UJ	UNFI	0.152	pCi/L	UJ	UNFI	0.230	pCi/L	UJ
TH-230	UNFI	0.270	pCi/L	UJ	UNFI	0.712	pCi/L	J	UNFI	0.270	pCi/L	U
TH-232	UNFI	0.180	pCi/L	UJ	UNFI	0.121	pCi/L	UJ	UNFI	0.250	pCi/L	UJ
TH-TOTAL	UNFI	1.640	ug/L	UJ	UNFI	1.120	ug/L	UJ	UNFI	1.540	ug/L	UJ
U-234	UNFI	2.050	pCi/L	J	UNFI	1.740	pCi/L	-	UNFI	0.270	pCi/L	J
U-235/236	UNFI	0.120	pCi/L	J	UNFI	0.153	pCi/L	UJ	UNFI	0.140	pCi/L	UJ
U-238	UNFI	1.920	pCi/L	J	UNFI	1.360	pCi/L	-	UNFI	0.180	pCi/L	J
U-TOTAL	UNFI	4.500	ug/L	-	UNFI	3.450	ug/L	-	UNFI	1.000	ug/L	U

TABLE C-12A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER DUPLICATE SAMPLING DATE	2947 111574 05/19/93	FLTD	RESULTS	UNITS	VQ	FILT	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	NA				FILT	16.000	pci/L	UJ	UNFI	NA		
CS-137	UNFI	10.600	pci/L	UJ		FILT	11.710	pci/L	UJ	UNFI	12.900	pci/L	UJ
GROSS ALPHA	UNFI	NA				FILT	NA	pci/L	UJ	UNFI	NA		
GROSS ALPHA	UNFI	12.830	pci/L	UJ		FILT	7.110	pci/L	UJ	UNFI	10.530	pci/L	UJ
GROSS BETA	UNFI	NA				FILT	NA	pci/L	UJ	UNFI	NA		
GROSS BETA	UNFI	7.390	pci/L	UJ		FILT	0.180	pci/L	R	UNFI	6.470	pci/L	UJ
NP-237	UNFI	NA				FILT	NA	pci/L	J	UNFI	NA		
NP-237	UNFI	0.110	pci/L	R		FILT	0.890	pci/L	J	UNFI	0.098	pci/L	R
PU-238	UNFI	NA				FILT	NA	pci/L	U	UNFI	NA		
PU-238	UNFI	0.110	pci/L	UJ		FILT	0.169	pci/L	U	UNFI	0.052	pci/L	J
PU-239/240	UNFI	NA				FILT	NA	pci/L	J	UNFI	NA		
PU-239/240	UNFI	0.098	pci/L	U		FILT	1.280	pci/L	J	UNFI	0.098	pci/L	UJ
RA-226	UNFI	NA				FILT	NA	pci/L	UJ	UNFI	NA		
RA-226	UNFI	0.990	pci/L	J		FILT	2.210	pci/L	UJ	UNFI	1.340	pci/L	J
RA-228	UNFI	NA				FILT	NA	pci/L	UJ	UNFI	NA		
RA-228	UNFI	2.000	pci/L	UJ		FILT	133.000	pci/L	UJ	UNFI	2.200	pci/L	UJ
RU-106	UNFI	NA				FILT	NA	pci/L	UJ	UNFI	NA		
RU-106	UNFI	99.900	pci/L	UJ		FILT	0.870	pci/L	J	UNFI	127.000	pci/L	UJ
SR-90	UNFI	NA				FILT	NA	pci/L	J	UNFI	NA		
SR-90	UNFI	1.370	pci/L	J		FILT	10.500	pci/L	UJ	UNFI	1.370	pci/L	J
TC-99	UNFI	NA				FILT	NA	pci/L	UJ	UNFI	NA		
TC-99	UNFI	10.100	pci/L	UJ		FILT	0.210	pci/L	UJ	UNFI	10.500	pci/L	UJ
TH-228	UNFI	NA				FILT	NA	pci/L	UJ	UNFI	NA		
TH-228	UNFI	0.280	pci/L	UJ		FILT	0.220	pci/L	UJ	UNFI	0.160	pci/L	UJ
TH-230	UNFI	NA				FILT	NA	pci/L	UJ	UNFI	NA		
TH-230	UNFI	0.230	pci/L	U		FILT	NA	pci/L	UJ	UNFI	0.330	pci/L	U
TH-232	UNFI	NA				FILT	0.057	pci/L	UJ	UNFI	NA		
TH-232	UNFI	0.130	pci/L	UJ		FILT	NA	pci/L	UJ	UNFI	0.050	pci/L	UJ
TH-TOTAL	UNFI	NA				FILT	0.523	ug/L	UJ	UNFI	NA		
TH-TOTAL	UNFI	1.190	ug/L	UJ		FILT	0.270	pci/L	J	UNFI	0.460	ug/L	UJ
U-234	UNFI	NA				FILT	NA	pci/L	J	UNFI	NA		
U-234	UNFI	0.230	pci/L	J		FILT	0.097	pci/L	UJ	UNFI	0.170	pci/L	J
U-235/236	UNFI	NA				FILT	NA	pci/L	J	UNFI	NA		
U-235/236	UNFI	0.051	pci/L	J		FILT	0.240	pci/L	J	UNFI	0.050	pci/L	J
U-238	UNFI	NA				FILT	NA	1.000	ug/L	UJ	UNFI	NA	
U-238	UNFI	0.170	pci/L	J		FILT	NA	ug/L	UJ	UNFI	0.160	pci/L	J
U-TOTAL	UNFI	NA				FILT	NA	1.000	ug/L	UJ	UNFI	NA	
U-TOTAL	UNFI	1.000	ug/L	U							1.000	ug/L	UJ

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TABLE C-12A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2949 111489			2949 115479			2951 111536						
SAMPLING DATE	04/17/93			05/26/93			05/01/93						
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	
CS-137	UNKN	NA			UNFI	15.000	pCi/L	UJ	UNFI	18.500	pCi/L	UJ	
CS-137	UNKN	18.000	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNFI	NA	pCi/L	UJ	
GROSS ALPHA	UNKN	NA			UNFI	8.150	pCi/L	UJ	UNFI	7.070	pCi/L	UJ	
GROSS ALPHA	UNKN	6.680	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNFI	NA	pCi/L	UJ	
GROSS BETA	UNKN	NA			UNFI	6.150	pCi/L	UJ	UNFI	4.730	pCi/L	UJ	
GROSS BETA	UNKN	4.280	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNFI	NA	pCi/L	UJ	
NP-237	UNKN	NA			UNFI	0.958	pCi/L	UJ	UNFI	0.200	pCi/L	U	
NP-237	UNKN	0.141	pCi/L	R	UNFI	NA	pCi/L	UJ	UNFI	NA	pCi/L	UJ	
PU-238	UNKN	NA			UNFI	0.278	pCi/L	J	UNFI	0.130	pCi/L	UJ	
PU-238	UNKN	0.204	pCi/L	UJ	UNFI	NA	pCi/L	U	UNFI	0.130	pCi/L	UJ	
PU-239/240	UNKN	NA			UNFI	0.410	pCi/L	U	UNFI	NA	pCi/L	UJ	
PU-239/240	UNKN	0.176	pCi/L	UJ	UNFI	NA	pCi/L	J	UNFI	0.270	pCi/L	J	
RA-226	UNKN	NA			UNFI	0.313	pCi/L	J	UNFI	NA	pCi/L	UJ	
RA-226	UNKN	0.566	pCi/L	J	UNFI	NA	pCi/L	UJ	UNFI	1.350	pCi/L	UJ	
RA-228	UNKN	NA			UNFI	2.610	pCi/L	UJ	UNFI	NA	pCi/L	UJ	
RA-228	UNKN	1.530	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNFI	151.000	pCi/L	UJ	
RU-106	UNKN	NA			UNFI	140.000	pCi/L	UJ	UNFI	NA	pCi/L	UJ	
RU-106	UNKN	155.000	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNFI	2.380	pCi/L	J	
SR-90	UNKN	NA			UNFI	0.754	pCi/L	J	UNFI	NA	pCi/L	J	
SR-90	UNKN	0.692	pCi/L	J	UNFI	NA	pCi/L	UJ	UNFI	8.700	pCi/L	UJ	
TC-99	UNKN	NA			UNFI	12.300	pCi/L	UJ	UNFI	NA	pCi/L	J	
TC-99	UNKN	11.000	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNFI	0.025	pCi/L	J	
TH-228	UNKN	NA			UNFI	0.190	pCi/L	UJ	UNFI	NA	pCi/L	J	
TH-228	UNKN	0.247	pCi/L	UJ	UNFI	NA	pCi/L	J	UNFI	1.720	pCi/L	U	
TH-230	UNKN	NA			UNFI	0.403	pCi/L	J	UNFI	NA	pCi/L	U	
TH-230	UNKN	0.412	pCi/L	U	UNFI	NA	pCi/L	UJ	UNFI	0.057	pCi/L	UJ	
TH-232	UNKN	NA			UNFI	0.067	pCi/L	UJ	UNFI	NA	pCi/L	UJ	
TH-232	UNKN	0.179	pCi/L	UJ	UNFI	NA	pCi/L	UJ	UNFI	0.520	ug/L	UJ	
TH-TOTAL	UNKN	NA			UNFI	0.616	ug/L	UJ	UNFI	NA	0.860	pCi/L	UJ
TH-TOTAL	UNKN	1.640	ug/L	UJ	UNFI	NA	ug/L	J	UNFI	NA	0.510	pCi/L	UJ
U-234	UNKN	NA			UNFI	0.269	pCi/L	J	UNFI	NA	0.1040	pCi/L	UJ
U-234	UNKN	0.192	pCi/L	J	UNFI	NA	pCi/L	UJ	UNFI	NA	1.080	ug/L	-
U-235/236	UNKN	NA			UNFI	0.046	pCi/L	UJ	UNFI	NA	0.510	pCi/L	UJ
U-235/236	UNKN	0.064	pCi/L	UJ	UNFI	NA	pCi/L	J	UNFI	NA	0.860	pCi/L	UJ
U-238	UNKN	NA			UNFI	0.168	pCi/L	J	UNFI	NA	0.1040	pCi/L	UJ
U-238	UNKN	0.143	pCi/L	J	UNFI	NA	pCi/L	J	UNFI	NA	1.080	ug/L	-
U-TOTAL	UNKN	NA			UNFI	0.378	ug/L	J	UNFI	NA	0.860	ug/L	-
U-TOTAL	UNKN	5.000	ug/L	U	UNFI	NA			UNFI	NA			

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TABLE C-12A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2951 115478				2953 115488			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			FILT	16.000	pCi/L	UJ
CS-137	UNFI	17.800	pCi/L	UJ	UNFI	20.000	pCi/L	CC
GROSS ALPHA		NA			FILT	5.970	pCi/L	CC
GROSS ALPHA	UNFI	11.800	pCi/L	UJ	UNFI	5.570	pCi/L	CC
GROSS BETA		NA			FILT	5.320	pCi/L	CC
GROSS BETA	UNFI	7.580	pCi/L	UJ	UNFI	5.390	pCi/L	CC
NP-237		NA			FILT	0.116	pCi/L	CC
NP-237	UNFI	0.318	pCi/L	N	UNFI	0.048	pCi/L	CC
PU-238		NA			FILT	0.096	pCi/L	CC
PU-238	UNFI	0.168	pCi/L	UJ	UNFI	0.048	pCi/L	CC
PU-239/240		NA			FILT	0.070	pCi/L	CC
PU-239/240	UNFI	0.066	pCi/L	UJ	UNFI	0.096	pCi/L	CC
RA-226		NA			FILT	0.576	pCi/L	CC
RA-226	UNFI	0.940	pCi/L	J	UNFI	0.864	pCi/L	CC
RA-228		NA			FILT	1.140	pCi/L	CC
RA-228	UNFI	1.750	pCi/L	UJ	UNFI	4.310	pCi/L	CC
RU-106		NA			FILT	116.000	pCi/L	CC
RU-106	UNFI	131.000	pCi/L	UJ	UNFI	116.000	pCi/L	CC
SR-90		NA			FILT	0.794	pCi/L	CC
SR-90	UNFI	1.740	pCi/L	J	UNFI	1.010	pCi/L	CC
TC-99		NA			FILT	9.800	pCi/L	CC
TC-99	UNFI	10.950	pCi/L	UJ	UNFI	10.900	pCi/L	CC
TH-228		NA			FILT	0.216	pCi/L	CC
TH-228	UNFI	0.617	pCi/L	UJ	UNFI	0.216	pCi/L	CC
TH-230		NA			FILT	0.301	pCi/L	CC
TH-230	UNFI	0.291	pCi/L	UJ	UNFI	0.327	pCi/L	CC
TH-232		NA			FILT	0.116	pCi/L	CC
TH-232	UNFI	0.290	pCi/L	UJ	UNFI	0.202	pCi/L	CC
TH-TOTAL		NA			FILT	1.070	ug/L	CC
TH-TOTAL	UNFI	2.670	ug/L	UJ	UNFI	1.820	ug/L	CC
U-234		NA			FILT	0.474	pCi/L	CC
U-234	UNFI	0.268	pCi/L	J	UNFI	0.430	pCi/L	CC
U-235/236		NA			FILT	0.094	pCi/L	CC
U-235/236	UNFI	0.054	pCi/L	UJ	UNFI	0.097	pCi/L	CC
U-238		NA			FILT	0.286	pCi/L	CC
U-238	UNFI	0.392	pCi/L	J	UNFI	0.301	pCi/L	CC
U-TOTAL		NA			FILT	1.000	ug/L	CC
U-TOTAL	UNFI	0.781	ug/L	J	UNFI	1.230	ug/L	CC

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PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1035 111552			1035 111553			1038 111548									
SAMPLING DATE	05/05/93			05/05/93			05/05/93									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																
Aluminum	UNFI	NA				FILT	0.376	mg/L	C	U	UNFI	NA	0.267	mg/L	C	-
Aluminum	UNFI	0.224	mg/L	C	-	FILT	0.003	mg/L	C	UJ	UNFI	NA	0.003	mg/L	C	UJ
Antimony	UNFI	0.003	mg/L	C	UJ	FILT	0.001	mg/L	C	U	UNFI	NA	0.002	mg/L	C	-
Antimony	UNFI	NA				FILT	0.091	mg/L	C	-	UNFI	NA	0.043	mg/L	C	-
Arsenic	UNFI	0.001	mg/L	C	U	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Arsenic	UNFI	NA				FILT	0.001	mg/L	C	U	UNFI	NA	0.002	mg/L	C	U
Barium	UNFI	0.091	mg/L	C	-	FILT	NA				UNFI	NA	145.000	mg/L	C	-
Barium	UNFI	NA				FILT	90.500	mg/L	C	-	UNFI	NA	0.004	mg/L	C	U
Beryllium	UNFI	0.001	mg/L	C	U	FILT	NA				UNFI	NA	0.003	mg/L	C	U
Beryllium	UNFI	NA				FILT	0.002	mg/L	C	U	UNFI	NA	0.002	mg/L	C	U
Cadmium	UNFI	0.002	mg/L	C	U	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Cadmium	UNFI	NA				FILT	0.004	mg/L	C	U	UNFI	NA	0.004	mg/L	C	U
Calcium	UNFI	91.600	mg/L	C	-	FILT	NA				UNFI	NA	0.003	mg/L	C	U
Calcium	UNFI	NA				FILT	33.300	mg/L	C	-	UNFI	NA	0.003	mg/L	C	U
Chromium	UNFI	0.004	mg/L	C	U	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Chromium	UNFI	NA				FILT	0.004	mg/L	C	-	UNFI	NA	0.001	mg/L	C	U
Cobalt	UNFI	0.003	mg/L	C	U	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Cobalt	UNFI	NA				FILT	0.007	mg/L	C	U	UNFI	NA	0.001	mg/L	C	U
Copper	UNFI	0.002	mg/L	C	U	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Copper	UNFI	NA				FILT	0.001	mg/L	C	R	UNFI	NA	0.001	mg/L	C	U
Cyanide	UNFI	0.001	mg/L	C	U	FILT	NA				UNFI	NA	0.144	mg/L	C	-
Cyanide	UNFI	NA				FILT	0.618	mg/L	C	U	UNFI	NA	1.120	mg/L	C	-
Iron	UNFI	0.524	mg/L	C	-	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Iron	UNFI	NA				FILT	0.001	mg/L	C	U	UNFI	NA	0.001	mg/L	C	U
Lead	UNFI	0.001	mg/L	C	-	FILT	NA				UNFI	NA	62.800	mg/L	C	-
Lead	UNFI	NA				FILT	0.023	mg/L	C	-	UNFI	NA	0.000	mg/L	C	U
Magnesium	UNFI	33.600	mg/L	C	-	FILT	NA				UNFI	NA	0.005	mg/L	C	U
Magnesium	UNFI	NA				FILT	0.000	mg/L	C	U	UNFI	NA	0.003	mg/L	C	U
Manganese	UNFI	0.045	mg/L	C	-	FILT	NA				UNFI	NA	0.003	mg/L	C	U
Manganese	UNFI	NA				FILT	0.008	mg/L	C	U	UNFI	NA	0.003	mg/L	C	U
Mercury	UNFI	0.000	mg/L	C	U	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Mercury	UNFI	NA				FILT	0.003	mg/L	C	U	UNFI	NA	0.001	mg/L	C	U
Molybdenum	UNFI	0.007	mg/L	C	U	FILT	NA				UNFI	NA	0.001	mg/L	C	U
Molybdenum	UNFI	NA				FILT	1.370	mg/L	C	-	UNFI	NA	2.090	mg/L	C	-
Nickel	UNFI	0.004	mg/L	C	-	FILT	NA				UNFI	NA	0.001	mg/L	C	UJ
Nickel	UNFI	NA				FILT	0.001	mg/L	C	UJ	UNFI	NA	6.600	mg/L	C	-
Potassium	UNFI	1.330	mg/L	C	-	FILT	NA				UNFI	NA	9.200	mg/L	C	-
Potassium	UNFI	NA				FILT	0.001	mg/L	C	UJ	UNFI	NA	0.000	mg/L	C	UJ
Selenium	UNFI	0.001	mg/L	C	UJ	FILT	NA				UNFI	NA	0.000	mg/L	C	UJ
Selenium	UNFI	NA				FILT	0.001	mg/L	C	UJ	UNFI	NA	0.000	mg/L	C	UJ
Silicon	UNFI	6.360	mg/L	C	-	FILT	NA				UNFI	NA	0.000	mg/L	C	UJ
Silicon	UNFI	NA				FILT	0.001	mg/L	C	UJ	UNFI	NA	0.000	mg/L	C	UJ

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1035'				1035				1038			
SAMPLE NUMBER	111552				111553				111548			
SAMPLING DATE	05/05/93				05/05/93				05/05/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS
<u>Inorganics</u>												
Silver	UNFI	NA				FILT	0.002	mg/L	C	U	UNFI	NA
Silver		0.002	mg/L	C	U						UNFI	0.002
Sodium	UNFI	NA				FILT	13.500	mg/L	C	-	UNFI	NA
Sodium		13.100	mg/L	C	-						UNFI	8.420
Thallium	UNFI	NA	mg/L	C	-	FILT	0.001	mg/L	C	U	UNFI	NA
Thallium		0.001	mg/L	C	U						UNFI	0.001
Vanadium	UNFI	NA				FILT	0.008	mg/L	C	U	UNFI	NA
Vanadium		0.008	mg/L	C	U						UNFI	0.009
Zinc	UNFI	NA				FILT	0.010	mg/L	C	U	UNFI	NA
Zinc		0.004	mg/L	C	U						UNFI	0.004
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
1,1-Dichloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
1,1-Dichloroethene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
1,2-Dichloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
1,2-Dichloroethene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
1,2-Dichloropropane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
2-Butanone	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
2-Hexanone	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Acetone	UNFI	2.000	ug/L	C	R		NA				UNFI	2.000
Benzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Bromodichloromethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Bromoform	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Bromomethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Carbon Tetrachloride	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Carbon disulfide	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Chlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Chloroethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Chloroform	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Chloromethane	UNFI	10.000	ug/L	C	R		NA				UNFI	10.000
Dibromochloromethane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Ethylbenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Methylene chloride	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Styrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Tetrachloroethene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Toluene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000
Trichloroethene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000

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PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1035 111552				1035 111553				1038 111548						
SAMPLING DATE	05/05/93				05/05/93				05/05/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Vinyl Acetate	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	UJ
Vinyl chloride	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	UJ
Xylenes, Total	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	R		NA				UNFI	25.000	ug/L	C	R
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Chloronaphthalene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Chlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
2-Nitrophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
3-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4-Nitrophenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
Acenaphthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Acenaphthylene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER. SAMPLE NUMBER	1035 111552	1035 111553	1038 111548			
SAMPLING DATE	05/05/93	05/05/93	05/05/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
Benzoic acid	UNFI	50.000 ug/L C R	NA	UNFI	50.000 ug/L C R	UNFI
Benzyl alcohol	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Butyl benzyl phthalate	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Carbazole	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Chrysene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Di-n-butyl phthalate	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Di-n-octyl phthalate	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Dibenzo(a,h)anthracene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Dibenzofuran	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Diethyl phthalate	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Dimethyl phthalate	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Fluoranthene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Fluorene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Hexachlorobenzene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Hexachlorobutadiene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Hexachlorocyclopentadiene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Hexachloroethane	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Indeno(1,2,3-cd)pyrene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Isophorone	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
N-Nitroso-di-n-propylamine	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
N-Nitrosodiphenylamine	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Naphthalene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Nitrobenzene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Pentachlorophenol	UNFI	25.000 ug/L C C	NA	UNFI	25.000 ug/L C C	UNFI
Phenanthrene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Phenol	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
Pyrene	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
bis(2-Chloroethoxy)methane	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
bis(2-Chloroethyl)ether	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
bis(2-Chloroisopropyl) ether	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
bis(2-Ethylhexyl) phthalate	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
p-Chloroaniline	UNFI	10.000 ug/L C C	NA	UNFI	10.000 ug/L C C	UNFI
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	UNFI	0.100 ug/L C C	NA	UNFI	0.100 ug/L C C	UNFI
4,4'-DDE	UNFI	0.100 ug/L C C	NA	UNFI	0.100 ug/L C C	UNFI
4,4'-DDT	UNFI	0.100 ug/L C C	NA	UNFI	0.100 ug/L C C	UNFI
Aldrin	UNFI	0.050 ug/L C C	NA	UNFI	0.050 ug/L C C	UNFI
Aroclor-1016	UNFI	1.000 ug/L C C	NA	UNFI	1.000 ug/L C C	UNFI
Aroclor-1221	UNFI	2.000 ug/L C C	NA	UNFI	2.000 ug/L C C	UNFI
Aroclor-1232	UNFI	1.000 ug/L C C	NA	UNFI	1.000 ug/L C C	UNFI

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1035 111552				1035 111553				1038 111548						
SAMPLING DATE	05/05/93				05/05/93				05/05/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>															
Aroclor-1242	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1248	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1254	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1260	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Dieldrin	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endosulfan II	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endosulfan sulfate	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endosulfan-I	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
Endrin	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endrin aldehyde	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endrin ketone	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Heptachlor	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
Heptachlor epoxide	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
Methoxychlor	UNFI	0.500	ug/L	C	U		NA				UNFI	0.500	ug/L	C	U
Toxaphene	UNFI	5.000	ug/L	C	U		NA				UNFI	5.000	ug/L	C	U
alpha-BHC	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
alpha-Chlordane	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
beta-BHC	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
delta-BHC	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
gamma-Chlordane	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
<u>General Chemistry</u>															
Alkalinity	UNFI	309.000	mg/L	B	-		NA				UNFI	44.300	mg/L	B	-
Ammonia	UNFI	0.100	mg/L	B	-		NA				UNFI	0.110	mg/L	B	-
Chloride	UNFI	3.950	mg/L	B	-		NA				UNFI	17.720	mg/L	B	-
Fluoride	UNFI	0.360	mg/L	B	-		NA				UNFI	0.520	mg/L	B	-
Nitrate	UNFI	0.930	mg/L	B	-		NA				UNFI	0.160	mg/L	B	-
Phenols	UNFI	0.010	mg/L	B	-		NA				UNFI	0.010	mg/L	B	-
Sulfate	UNFI	67.900	mg/L	B	-		NA				UNFI	154.400	mg/L	B	-
Sulfide	UNFI	0.500	mg/L	B	-		NA				UNFI	0.500	mg/L	B	-
Total Kjeldahl Nitrogen	UNFI	0.210	mg/L	B	-		NA				UNFI	0.100	mg/L	B	-
Total Organic Carbon	UNFI	1.000	mg/L	B	-		NA				UNFI	1.000	mg/L	B	-
Total Organic Halides	UNFI	0.010	mg/L	B	-		NA				UNFI	0.010	mg/L	B	-
Total Organic Nitrogen	UNFI	0.210	mg/L	B	-		NA				UNFI	0.100	mg/L	B	-
Total Phosphorous	UNFI	0.070	mg/L	B	-		NA				UNFI	0.030	mg/L	B	-

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1038				1950				1950									
SAMPLE NUMBER	111549				115480				115481									
SAMPLING DATE	05/05/93				06/08/93				06/08/93									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ			
<u>Inorganics</u>																		
Aluminum	FILT	0.377	mg/L	C	U	UNFI	NA	0.030	mg/L	D	U	UNFI	NA	4.320	mg/L	C	-	
Aluminum	FILT	NA	0.002	mg/L	C	UJ	UNFI	NA	0.059	mg/L	D	U	UNFI	NA	0.059	mg/L	C	U
Antimony	FILT	NA	0.002	mg/L	C	-	UNFI	NA	0.001	mg/L	D	-	UNFI	NA	0.002	mg/L	C	-
Arsenic	FILT	NA	0.002	mg/L	C	-	UNFI	NA	0.054	mg/L	D	-	UNFI	NA	0.088	mg/L	C	-
Barium	FILT	0.043	mg/L	C	-	UNFI	NA	0.054	mg/L	D	-	UNFI	NA	0.001	mg/L	C	U	
Barium	FILT	NA	0.001	mg/L	C	U	UNFI	NA	0.001	mg/L	D	U	UNFI	NA	0.003	mg/L	C	-
Beryllium	FILT	NA	0.002	mg/L	C	U	UNFI	NA	0.003	mg/L	D	-	UNFI	NA	122.000	mg/L	C	-
Beryllium	FILT	NA	141.000	mg/L	C	-	UNFI	NA	102.000	mg/L	D	-	UNFI	NA	0.005	mg/L	C	U
Cadmium	FILT	0.004	mg/L	C	U	UNFI	NA	0.005	mg/L	D	U	UNFI	NA	0.009	mg/L	C	-	
Cadmium	FILT	NA	0.003	mg/L	C	U	UNFI	NA	0.004	mg/L	D	U	UNFI	NA	0.013	mg/L	C	U
Calcium	FILT	NA	0.002	mg/L	C	U	UNFI	NA	0.008	mg/L	D	U	UNFI	NA	0.005	mg/L	C	-
Calcium	FILT	0.001	mg/L	C	R	UNFI	NA	0.002	mg/L	D	U	UNFI	NA	8.920	mg/L	C	-	
Chromium	FILT	NA	1.030	mg/L	C	-	UNFI	NA	0.104	mg/L	D	U	UNFI	NA	0.004	mg/L	C	U
Cobalt	FILT	NA	0.001	mg/L	C	U	UNFI	NA	0.001	mg/L	D	U	UNFI	NA	88.800	mg/L	C	-
Cobalt	FILT	NA	61.400	mg/L	C	-	UNFI	NA	80.700	mg/L	D	-	UNFI	NA	0.286	mg/L	C	-
Copper	FILT	0.113	mg/L	C	-	UNFI	NA	0.203	mg/L	D	-	UNFI	NA	0.000	mg/L	C	U	
Copper	FILT	NA	0.000	mg/L	C	U	UNFI	NA	0.014	mg/L	D	-	UNFI	NA	0.020	mg/L	C	-
Cyanide	FILT	NA	0.005	mg/L	C	U	UNFI	NA	0.021	mg/L	D	U	UNFI	NA	0.021	mg/L	C	U
Cyanide	FILT	NA	0.003	mg/L	C	U	UNFI	NA	3.950	mg/L	D	-	UNFI	NA	3.560	mg/L	C	-
Iron	FILT	2.080	mg/L	C	-	UNFI	NA	0.001	mg/L	D	UJ	UNFI	NA	0.001	mg/L	C	UJ	
Iron	FILT	NA	0.001	mg/L	C	UJ	UNFI	NA	7.670	mg/L	D	-	UNFI	NA	15.500	mg/L	C	-
Lead	FILT	NA	9.400	mg/L	C	-	UNFI	NA										
Lead	FILT	NA					UNFI	NA					UNFI	NA				
Magnesium	FILT	NA					UNFI	NA					UNFI	NA				
Magnesium	FILT	NA					UNFI	NA					UNFI	NA				
Manganese	FILT	NA					UNFI	NA					UNFI	NA				
Manganese	FILT	NA					UNFI	NA					UNFI	NA				
Mercury	FILT	NA					UNFI	NA					UNFI	NA				
Mercury	FILT	NA					UNFI	NA					UNFI	NA				
Molybdenum	FILT	NA					UNFI	NA					UNFI	NA				
Molybdenum	FILT	NA					UNFI	NA					UNFI	NA				
Nickel	FILT	NA					UNFI	NA					UNFI	NA				
Nickel	FILT	NA					UNFI	NA					UNFI	NA				
Potassium	FILT	NA					UNFI	NA					UNFI	NA				
Potassium	FILT	NA					UNFI	NA					UNFI	NA				
Selenium	FILT	NA					UNFI	NA					UNFI	NA				
Selenium	FILT	NA					UNFI	NA					UNFI	NA				
Silicon	FILT	NA					UNFI	NA					UNFI	NA				
Silicon	FILT	NA					UNFI	NA					UNFI	NA				

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1038			1950			1950				
SAMPLE NUMBER	111549			115480			115481				
SAMPLING DATE	05/05/93			06/08/93			06/08/93				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>											
Silver	FILT	0.002	mg/L	C	U	UNFI	NA	0.004	mg/L	D	U
Sodium	FILT	8.520	mg/L	C	-	UNFI	NA	17.300	mg/L	D	-
Thallium	FILT	0.001	mg/L	C	U	UNFI	NA	0.001	mg/L	D	U
Vanadium	FILT	0.009	mg/L	C	U	UNFI	NA	0.002	mg/L	D	U
Zinc	FILT	0.004	mg/L	C	U	UNFI	NA	0.005	mg/L	D	U
Zinc		NA				UNFI					
<u>Volatile Organics</u>											
1,1,1-Trichloroethane		NA				UNFI	10.000	ug/L	D	U	
1,1,2,2-Tetrachloroethane		NA				UNFI	10.000	ug/L	D	U	
1,1,2-Trichloroethane		NA				UNFI	10.000	ug/L	D	U	
1,1-Dichloroethane		NA				UNFI	10.000	ug/L	D	U	
1,1-Dichloroethene		NA				UNFI	10.000	ug/L	D	U	
1,2-Dichloroethane		NA				UNFI	10.000	ug/L	D	U	
1,2-Dichloroethene		NA				UNFI	10.000	ug/L	D	U	
1,2-Dichloropropane		NA				UNFI	10.000	ug/L	D	U	
2-Butanone		NA				UNFI	10.000	ug/L	D	U	
2-Hexanone		NA				UNFI	10.000	ug/L	D	U	
4-Methyl-2-pentanone		NA				UNFI	10.000	ug/L	D	U	
Acetone		NA				UNFI	10.000	ug/L	D	U	
Benzene		NA				UNFI	10.000	ug/L	D	U	
Bromodichloromethane		NA				UNFI	10.000	ug/L	D	U	
Bromoform		NA				UNFI	10.000	ug/L	D	U	
Bromomethane		NA				UNFI	10.000	ug/L	D	U	
Carbon Tetrachloride		NA				UNFI	10.000	ug/L	D	U	
Carbon disulfide		NA				UNFI	10.000	ug/L	D	U	
Chlorobenzene		NA				UNFI	10.000	ug/L	D	U	
Chloroethane		NA				UNFI	10.000	ug/L	D	U	
Chloroform		NA				UNFI	10.000	ug/L	D	U	
Chloromethane		NA				UNFI	10.000	ug/L	D	U	
Dibromochloromethane		NA				UNFI	10.000	ug/L	D	U	
Ethylbenzene		NA				UNFI	10.000	ug/L	D	U	
Methylene chloride		NA				UNFI	10.000	ug/L	D	U	
Styrene		NA				UNFI	10.000	ug/L	D	U	
Tetrachloroethene		NA				UNFI	10.000	ug/L	D	U	
Toluene		NA				UNFI	10.000	ug/L	D	U	
Trichloroethene		NA				UNFI	10.000	ug/L	D	U	

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1038	1950	1950						
SAMPLE NUMBER	111549	115480	115481						
SAMPLING DATE	05/05/93	06/08/93	06/08/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Volatile Organics</u>									
Vinyl Acetate		NA		UNFI	10.000	ug/L	D U		NA
Vinyl chloride		NA		UNFI	10.000	ug/L	D D		NA
Xylenes, Total		NA		UNFI	10.000	ug/L	D D D		NA
cis-1,3-Dichloropropene		NA		UNFI	10.000	ug/L	D D D		NA
trans-1,3-Dichloropropene		NA		UNFI	10.000	ug/L	D D D		NA
<u>Semivolatile Organics</u>									
1,2,4-Trichlorobenzene		NA		UNFI	10.000	ug/L	D U		NA
1,2-Dichlorobenzene		NA		UNFI	10.000	ug/L	D D		NA
1,3-Dichlorobenzene		NA		UNFI	10.000	ug/L	D D D		NA
1,4-Dichlorobenzene		NA		UNFI	10.000	ug/L	D D D		NA
2,4,5-Trichlorophenol		NA		UNFI	25.000	ug/L	D D D D		NA
2,4,6-Trichlorophenol		NA		UNFI	10.000	ug/L	D D D D		NA
2,4-Dichlorophenol		NA		UNFI	10.000	ug/L	D D D D		NA
2,4-Dimethylphenol		NA		UNFI	10.000	ug/L	D D D D		NA
2,4-Dinitrophenol		NA		UNFI	25.000	ug/L	D D D D		NA
2,4-Dinitrotoluene		NA		UNFI	10.000	ug/L	D D D D		NA
2,6-Dinitrotoluene		NA		UNFI	10.000	ug/L	D D D D		NA
2-Benzyl-4-chlorophenol		NA		UNFI	10.000	ug/L	D D D D		NA
2-Chloronaphthalene		NA		UNFI	10.000	ug/L	D D D D		NA
2-Chlorophenol		NA		UNFI	10.000	ug/L	D D D D		NA
2-Methylnaphthalene		NA		UNFI	10.000	ug/L	D D D D		NA
2-Methylphenol		NA		UNFI	10.000	ug/L	D D D D		NA
2-Nitroaniline		NA		UNFI	25.000	ug/L	D D D D		NA
2-Nitrophenol		NA		UNFI	10.000	ug/L	D D D D		NA
3,3'-Dichlorobenzidine		NA		UNFI	10.000	ug/L	D D D D		NA
3-Nitroaniline		NA		UNFI	25.000	ug/L	D D D D		NA
4,6-Dinitro-2-methylphenol		NA		UNFI	25.000	ug/L	D D D D		NA
4-Bromophenyl phenyl ether		NA		UNFI	10.000	ug/L	D D D D		NA
4-Chloro-3-methylphenol		NA		UNFI	10.000	ug/L	D D D D		NA
4-Chlorophenylphenyl ether		NA		UNFI	10.000	ug/L	D D D D		NA
4-Methylphenol		NA		UNFI	10.000	ug/L	D D D D		NA
4-Nitroaniline		NA		UNFI	25.000	ug/L	D D D D		NA
4-Nitrophenol		NA		UNFI	25.000	ug/L	D D D D		NA
Acenaphthene		NA		UNFI	10.000	ug/L	D D D D		NA
Acenaphthylene		NA		UNFI	10.000	ug/L	D D D D		NA
Anthracene		NA		UNFI	10.000	ug/L	D D D D		NA
Benzo(a)anthracene		NA		UNFI	10.000	ug/L	D D D D		NA
Benzo(a)pyrene		NA		UNFI	10.000	ug/L	D D D D		NA
Benzo(b)fluoranthene		NA		UNFI	10.000	ug/L	D D D D		NA
Benzo(g,h,i)perylene		NA		UNFI	10.000	ug/L	D D D D		NA

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FEMP-OIU02-4 DRAFT
February 18, 1994TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1038	1950			1950					
SAMPLE NUMBER	111549	115480			115481					
SAMPLING DATE	05/05/93	06/08/93			06/08/93					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>										
Benzo(k)fluoranthene	NA		UNFI	10.000	ug/L	D				NA
Benzoic acid	NA		UNFI	50.000	ug/L	D				NA
Benzyl alcohol	NA		UNFI	10.000	ug/L	D				NA
Butyl benzyl phthalate	NA		UNFI	10.000	ug/L	D				NA
Carbazole	NA		UNFI	10.000	ug/L	D				NA
Chrysene	NA		UNFI	10.000	ug/L	D				NA
Di-n-butyl phthalate	NA		UNFI	10.000	ug/L	D				NA
Di-n-octyl phthalate	NA		UNFI	10.000	ug/L	D				NA
Dibenzo(a,h)anthracene	NA		UNFI	10.000	ug/L	D				NA
Dibenzofuran	NA		UNFI	10.000	ug/L	D				NA
Diethyl phthalate	NA		UNFI	10.000	ug/L	D				NA
Dimethyl phthalate	NA		UNFI	10.000	ug/L	D				NA
Fluoranthene	NA		UNFI	10.000	ug/L	D				NA
Fluorene	NA		UNFI	10.000	ug/L	D				NA
Hexachlorobenzene	NA		UNFI	10.000	ug/L	D				NA
Hexachlorobutadiene	NA		UNFI	10.000	ug/L	D				NA
Hexachlorocyclopentadiene	NA		UNFI	10.000	ug/L	D				NA
Hexachloroethane	NA		UNFI	10.000	ug/L	D				NA
Indeno(1,2,3-cd)pyrene	NA		UNFI	10.000	ug/L	D				NA
Isophorone	NA		UNFI	10.000	ug/L	D				NA
N-Nitroso-di-n-propylamine	NA		UNFI	10.000	ug/L	D				NA
N-Nitrosodimethylamine	NA		UNFI	10.000	ug/L	D				NA
N-Nitrosodiphenylamine	NA		UNFI	10.000	ug/L	D				NA
Naphthalene	NA		UNFI	10.000	ug/L	D				NA
Nitrobenzene	NA		UNFI	10.000	ug/L	D				NA
Pentachlorophenol	NA		UNFI	25.000	ug/L	D				NA
Phenanthrene	NA		UNFI	10.000	ug/L	D				NA
Phenol	NA		UNFI	10.000	ug/L	D				NA
Pyrene	NA		UNFI	10.000	ug/L	D				NA
Tributyl phosphate	NA		UNFI	10.000	ug/L	D				NA
bis(2-Chloroethoxy)methane	NA		UNFI	10.000	ug/L	D				NA
bis(2-Chloroethyl)ether	NA		UNFI	10.000	ug/L	D				NA
bis(2-Chloroisopropyl) ether	NA		UNFI	10.000	ug/L	D				NA
bis(2-Ethylhexyl) phthalate	NA		UNFI	10.000	ug/L	D				NA
p-Chloroaniline	NA		UNFI	10.000	ug/L	D				NA
<u>Pesticide Organics/PCBs</u>										
4,4'-DDD	NA		UNFI	0.100	ug/L	D				NA
4,4'-DDE	NA		UNFI	0.100	ug/L	D				NA
4,4'-DDT	NA		UNFI	0.100	ug/L	D				NA
Aldrin	NA		UNFI	0.050	ug/L	D				NA

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1038 111549	1950 115480	1950 115481				
SAMPLING DATE	05/05/93	06/08/93	06/08/93				
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	
<u>Pesticide Organics/PCBs</u>							
Aroclor-1016	NA	UNFI 1.000 ug/L D	UNFI 2.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 0.100 ug/L D	NA
Aroclor-1221	NA	UNFI 2.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 0.100 ug/L D	NA
Aroclor-1232	NA	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 0.100 ug/L D	NA
Aroclor-1242	NA	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 0.100 ug/L D	NA
Aroclor-1248	NA	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 0.100 ug/L D	NA
Aroclor-1254	NA	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 0.100 ug/L D	NA
Aroclor-1260	NA	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 1.000 ug/L D	UNFI 0.100 ug/L D	NA
Dieldrin	NA	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	NA
Endosulfan II	NA	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	NA
Endosulfan sulfate	NA	UNFI 0.050 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	NA
Endosulfan-I	NA	UNFI 0.050 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	NA
Endrin	NA	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	NA
Endrin aldehyde	NA	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	NA
Endrin ketone	NA	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	UNFI 0.100 ug/L D	NA
Heptachlor	NA	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	NA
Heptachlor epoxide	NA	UNFI 0.050 ug/L D	UNFI 0.500 ug/L D	UNFI 0.500 ug/L D	UNFI 0.500 ug/L D	UNFI 0.500 ug/L D	NA
Methoxychlor	NA	UNFI 5.000 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	NA
Toxaphene	NA	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	NA
alpha-BHC	NA	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	NA
alpha-Chlordane	NA	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	NA
beta-BHC	NA	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	NA
delta-BHC	NA	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	NA
gamma-BHC (Lindane)	NA	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	NA
gamma-Chlordane	NA	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	UNFI 0.050 ug/L D	NA
<u>General Chemistry</u>							
Alkalinity	NA	UNFI 445.000 mg/L B	UNFI 0.120 mg/L B	UNFI 9.920 mg/L B	UNFI 1.250 mg/L B	UNFI 0.800 mg/L B	NA
Ammonia	NA	UNFI 0.120 mg/L B	UNFI 190.700 mg/L B	UNFI 0.010 mg/L B	UNFI 7.870 mg/L B	UNFI 0.380 mg/L B	NA
Chloride	NA	UNFI 9.920 mg/L B	UNFI 190.700 mg/L B	UNFI 0.010 mg/L B	UNFI 7.870 mg/L B	UNFI 0.380 mg/L B	NA
Fluoride	NA	UNFI 1.250 mg/L B	UNFI 7.870 mg/L B	UNFI 0.010 mg/L B	UNFI 0.380 mg/L B	UNFI 0.240 mg/L B	NA
Nitrate	NA	UNFI 0.800 mg/L B	UNFI 0.010 mg/L B	UNFI 0.015 mg/L B	UNFI 0.015 mg/L B	UNFI 0.260 mg/L B	NA
Phenols	NA	UNFI 0.010 mg/L B	UNFI 0.010 mg/L B	UNFI 0.015 mg/L B	UNFI 0.015 mg/L B	UNFI 0.210 mg/L B	NA
Sulfate	NA	UNFI 190.700 mg/L B	UNFI 0.010 mg/L B	UNFI 0.015 mg/L B	UNFI 0.015 mg/L B	UNFI 0.260 mg/L B	NA
Sulfide	NA	UNFI 0.010 mg/L B	UNFI 0.010 mg/L B	UNFI 0.015 mg/L B	UNFI 0.015 mg/L B	UNFI 0.210 mg/L B	NA
Total Kjeldahl Nitrogen	NA	UNFI 7.870 mg/L B	UNFI 0.380 mg/L B	UNFI 0.240 mg/L B	UNFI 0.015 mg/L B	UNFI 0.260 mg/L B	NA
Total Organic Carbon	NA	UNFI 0.380 mg/L B	UNFI 0.240 mg/L B	UNFI 0.015 mg/L B	UNFI 0.015 mg/L B	UNFI 0.260 mg/L B	NA
Total Organic Halides	NA	UNFI 0.240 mg/L B	UNFI 0.015 mg/L B	UNFI 0.015 mg/L B	UNFI 0.015 mg/L B	UNFI 0.260 mg/L B	NA
Total Organic Nitrogen	NA	UNFI 0.015 mg/L B	UNFI 0.015 mg/L B	UNFI 0.015 mg/L B	UNFI 0.015 mg/L B	UNFI 0.260 mg/L B	NA
Total Phosphorous	NA	UNFI 0.210 mg/L B	UNFI 0.210 mg/L B	UNFI 0.210 mg/L B	UNFI 0.210 mg/L B	UNFI 0.210 mg/L B	NA

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1952			1952			2027				
SAMPLE NUMBER	115468			115471			111543				
SAMPLING DATE	05/15/93			05/15/93			04/23/93				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>											
Aluminum	UNFI	NA	mg/L	C	-	UNFI	NA	53.200	mg/L	C	-
Aluminum	UNFI	0.216	mg/L	C	-	UNFI	NA	0.303	mg/L	C	-
Antimony	UNFI	NA	mg/L	C	U	UNFI	NA	0.005	mg/L	C	UJ
Antimony	UNFI	0.005	mg/L	C	U	UNFI	NA	0.002	mg/L	C	UJ
Arsenic	UNFI	NA	mg/L	C	UJ	UNFI	NA	0.004	mg/L	C	-
Arsenic	UNFI	0.002	mg/L	C	UJ	UNFI	NA	0.004	mg/L	C	-
Barium	UNFI	NA	mg/L	C	UJ	UNFI	NA	0.466	mg/L	C	-
Barium	UNFI	0.124	mg/L	C	-	UNFI	NA	0.067	mg/L	C	-
Beryllium	UNFI	NA	mg/L	C	-	UNFI	NA	0.002	mg/L	C	U
Beryllium	UNFI	0.002	mg/L	C	U	UNFI	NA	0.005	mg/L	C	U
Cadmium	UNFI	NA	mg/L	C	U	UNFI	NA	0.005	mg/L	C	U
Cadmium	UNFI	0.005	mg/L	C	U	UNFI	NA	258.000	mg/L	C	J
Calcium	UNFI	NA	mg/L	C	-	UNFI	NA	398.000	mg/L	C	-
Calcium	UNFI	201.000	mg/L	C	-	UNFI	NA	0.010	mg/L	C	U
Chromium	UNFI	NA	mg/L	C	-	UNFI	NA	0.010	mg/L	C	U
Chromium	UNFI	0.010	mg/L	C	U	UNFI	NA	0.010	mg/L	C	U
Cobalt	UNFI	NA	mg/L	C	U	UNFI	NA	0.026	mg/L	C	-
Cobalt	UNFI	0.010	mg/L	C	U	UNFI	NA	0.010	mg/L	C	U
Copper	UNFI	NA	mg/L	C	U	UNFI	NA	0.071	mg/L	C	-
Copper	UNFI	0.010	mg/L	C	U	UNFI	NA	0.002	mg/L	C	U
Cyanide	UNFI	0.002	mg/L	C	U	UNFI	NA	5.070	mg/L	C	-
Iron	UNFI	NA	mg/L	C	-	UNFI	NA	0.002	mg/L	C	U
Iron	UNFI	0.020	mg/L	C	U	UNFI	NA	75.000	mg/L	C	-
Lead	UNFI	NA	mg/L	C	U	UNFI	NA	0.031	mg/L	C	-
Lead	UNFI	0.002	mg/L	C	U	UNFI	NA	61.300	mg/L	C	J
Magnesium	UNFI	NA	mg/L	C	-	UNFI	NA	130.000	mg/L	C	-
Magnesium	UNFI	62.700	mg/L	C	-	UNFI	NA	0.657	mg/L	C	-
Manganese	UNFI	NA	mg/L	C	-	UNFI	NA	1.900	mg/L	C	-
Manganese	UNFI	0.529	mg/L	C	-	UNFI	NA	0.000	mg/L	C	U
Mercury	UNFI	NA	mg/L	C	U	UNFI	NA	0.000	mg/L	C	U
Mercury	UNFI	0.000	mg/L	C	U	UNFI	NA	0.020	mg/L	C	U
Molybdenum	UNFI	NA	mg/L	C	-	UNFI	NA	0.026	mg/L	C	-
Molybdenum	UNFI	0.010	mg/L	C	U	UNFI	NA	0.020	mg/L	C	U
Nickel	UNFI	NA	mg/L	C	-	UNFI	NA	0.118	mg/L	C	-
Nickel	UNFI	0.065	mg/L	C	-	UNFI	NA	6.950	mg/L	C	-
Potassium	UNFI	NA	mg/L	C	-	UNFI	NA	15.400	mg/L	C	-
Potassium	UNFI	1.550	mg/L	C	-	UNFI	NA	0.002	mg/L	C	UJ
Selenium	UNFI	NA	mg/L	C	U	UNFI	NA	0.002	mg/L	C	UJ
Selenium	UNFI	0.002	mg/L	C	U	UNFI	NA	5.910	mg/L	C	-
Silicon	UNFI	NA	mg/L	C	-	UNFI	NA	0.010	mg/L	C	U
Silicon	UNFI	7.930	mg/L	C	-	UNFI	NA	72.100	mg/L	C	-
Silver	UNFI	NA	mg/L	C	-	UNFI	NA	0.010	mg/L	C	U

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1952 115468				1952 115471				2027 111543							
SAMPLING DATE	05/15/93				05/15/93				04/23/93							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																
Silver	UNFI	0.010	mg/L	C	U	UNFI	0.020	mg/L	C	-	FILT	NA	41.900	mg/L	C	J
Sodium	UNFI	NA				UNFI	12.200	mg/L	C	-	FILT	NA				
Sodium	UNFI	12.000	mg/L	C	-	UNFI	NA	mg/L	C	-	FILT	0.002	mg/L	C	UJ	
Thallium	UNFI	NA				UNFI	0.002	mg/L	C	U	FILT	NA				
Thallium	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U	FILT	0.010	mg/L	C	U	
Vanadium	UNFI	NA				UNFI	NA	mg/L	C	-	FILT	NA	0.006	mg/L	C	U
Vanadium	UNFI	0.010	mg/L	C	U	UNFI	0.118	mg/L	C	-	FILT	NA				
Zinc	UNFI	NA				UNFI	NA	mg/L	C	-	FILT	NA				
Zinc	UNFI	0.019	mg/L	C	-	UNFI	0.212	mg/L	C	-	FILT	NA				
<u>Volatile Organics</u>																
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
1,1-Dichloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
1,1-Dichloroethene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
1,2-Dichloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
1,2-Dichloroethene	UNFI	16.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
1,2-Dichloropropane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
2-Butanone	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
2-Hexanone	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Acetone	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Benzene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Bromodichloromethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Bromoform	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Bromomethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Carbon Tetrachloride	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Carbon disulfide	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Chlorobenzene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Chloroethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Chloroethene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Chloroform	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Chloromethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Dibromochloromethane	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Ethylbenzene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Methylene chloride	UNFI	11.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Styrene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Tetrachloroethene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Toluene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Trichloroethene	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	
Vinyl Acetate	UNFI	10.000	ug/L	C	U	NA					UNFI	10.000	ug/L	C	U	

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1952				1952				2027			
SAMPLE NUMBER	115468				115471				111543			
SAMPLING DATE	05/15/93				05/15/93				04/23/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS
<u>Volatile Organics</u>												
Vinyl chloride	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
Xylenes, Total	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	UJ		NA			UNFI	25.000	ug/L
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	UJ		NA			UNFI	50.000	ug/L
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2-Benzyl-4-chlorophenol	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2-Chloronaphthalene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2-Chlorophenol	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2-Methylnaphthalene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2-Methylphenol	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
2-Nitroaniline	UNFI	25.000	ug/L	C	UJ		NA			UNFI	25.000	ug/L
2-Nitrophenol	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
3-Nitroaniline	UNFI	25.000	ug/L	C	UJ		NA			UNFI	25.000	ug/L
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	UJ		NA			UNFI	25.000	ug/L
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
4-Methylphenol	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
4-Nitroaniline	UNFI	25.000	ug/L	C	UJ		NA			UNFI	25.000	ug/L
4-Nitrophenol	UNFI	25.000	ug/L	C	UJ		NA			UNFI	25.000	ug/L
Acenaphthene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
Acenaphthylene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
Anthracene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
Benzo(a)anthracene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
Benzo(a)pyrene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	UJ		NA			UNFI	10.000	ug/L

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1952 115468				1952 115471				2027 111543						
SAMPLING DATE	05/15/93				05/15/93				04/23/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Benzoic acid	UNFI	50.000	ug/L	C	UJ		NA				UNFI	50.000	ug/L	C	R
Benzyl alcohol	UNFI	10.000	ug/L	C	R		NA				UNFI	10.000	ug/L	C	UJ
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Carbazole	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Chrysene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Di-n-butyl phthalate	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Di-n-octyl phthalate	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Dibenzofuran	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Diethyl phthalate	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Dimethyl phthalate	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Fluoranthene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Fluorene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Hexachlorobenzene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Hexachlorobutadiene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Hexachloroethane	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Isophorone	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
N-Nitrosodimethylamine	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Naphthalene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Nitrobenzene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Pentachlorophenol	UNFI	25.000	ug/L	C	UJ		NA				UNFI	25.000	ug/L	C	CC
Phenanthrene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Phenol	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Pyrene	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
Tributyl phosphate	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
p-Chloroaniline	UNFI	10.000	ug/L	C	UJ		NA				UNFI	10.000	ug/L	C	CC
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD	UNFI	0.100	ug/L	C	UJ		NA				UNFI	0.100	ug/L	C	UJ
4,4'-DDE	UNFI	0.100	ug/L	C	UJ		NA				UNFI	0.100	ug/L	C	UJ
4,4'-DDT	UNFI	0.100	ug/L	C	UJ		NA				UNFI	0.100	ug/L	C	UJ
Aldrin	UNFI	0.050	ug/L	C	UJ		NA				UNFI	0.050	ug/L	C	UJ
Aroclor-1016	UNFI	1.000	ug/L	C	UJ		NA				UNFI	1.000	ug/L	C	UJ

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1952 115468				1952 115471				2027 111543						
SAMPLING DATE	05/15/93				05/15/93				04/23/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>															
Aroclor-1221	UNFI	2.000	ug/L	C	U		NA				UNFI	2.000	ug/L	C	U
Aroclor-1232	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1242	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1248	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1254	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1260	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Dieldrin	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endosulfan II	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endosulfan sulfate	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endosulfan-I	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
Endrin	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endrin aldehyde	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endrin ketone	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Heptachlor	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
Heptachlor epoxide	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
Methoxychlor	UNFI	0.500	ug/L	C	U		NA				UNFI	0.500	ug/L	C	U
Toxaphene	UNFI	5.000	ug/L	C	U		NA				UNFI	5.000	ug/L	C	U
alpha-BHC	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
alpha-Chlordane	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
beta-BHC	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
delta-BHC	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
gamma-Chlordane	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
<u>General Chemistry</u>															
Alkalinity	UNFI	625.000	mg/L	B	-		NA				UNFI	410.000	mg/L	B	-
Ammonia	UNFI	0.100	mg/L	B	-		NA				UNFI	0.340	mg/L	B	-
Chloride	UNFI	27.000	mg/L	B	-		NA				UNFI	135.200	mg/L	B	-
Fluoride	UNFI	0.190	mg/L	B	-		NA				UNFI	0.260	mg/L	B	-
Nitrate	UNFI	0.100	mg/L	B	R		NA				UNFI	2.330	mg/L	B	-
Phenols	UNFI	0.010	mg/L	B	U		NA				UNFI	0.010	mg/L	B	-
Phosphorus	UNFI	0.910	mg/L	B	-		NA				NA				
Sulfate	UNFI	99.800	mg/L	B	-		NA				UNFI	333.300	mg/L	B	-
Sulfide	UNFI	0.500	mg/L	B	-		NA				UNFI	0.500	mg/L	B	-
Total Kjeldahl Nitrogen	UNFI	0.670	mg/L	B	-		NA				UNFI	0.580	mg/L	B	-
Total Organic Carbon	UNFI	2.800	mg/L	B	-		NA				UNFI	1.550	mg/L	B	-
Total Organic Halides	UNFI	0.094	mg/L	B	J		NA				UNFI	0.010	mg/L	B	-
Total Organic Nitrogen	UNFI	0.670	mg/L	B	-		NA				UNFI	0.240	mg/L	B	-
Total Phosphorous		NA					NA				UNFI	0.020	mg/L	B	-

TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 111540				2052 111546				2947 115473			
SAMPLING DATE	04/22/93				04/29/93				05/19/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum	FILT	0.240	mg/L	C U	FILT	0.091	mg/L	C -	UNFI	NA	0.275	mg/L D U
Aluminum	FILT	NA	0.005	mg/L C UJ	FILT	NA	0.001	mg/L C UJ	UNFI	NA	0.005	mg/L D U
Antimony	FILT	NA	0.002	mg/L C UJ	FILT	NA	0.001	mg/L C U	UNFI	NA	0.002	mg/L D U
Arsenic	FILT	NA	0.069	mg/L C -	FILT	NA	0.072	mg/L C J	UNFI	NA	0.110	mg/L D -
Arsenic	FILT	NA	0.002	mg/L C U	FILT	NA	0.003	mg/L C U	UNFI	NA	0.002	mg/L D U
Barium	FILT	NA	141.000	mg/L C J	FILT	NA	153.000	mg/L C -	UNFI	NA	0.005	mg/L D U
Barium	FILT	NA	0.010	mg/L C U	FILT	NA	0.004	mg/L C U	UNFI	NA	159.000	mg/L D -
Beryllium	FILT	NA	0.010	mg/L C U	FILT	NA	0.003	mg/L C U	UNFI	NA	0.010	mg/L D U
Beryllium	FILT	NA	0.010	mg/L C U	FILT	NA	0.002	mg/L C U	UNFI	NA	0.010	mg/L D U
Cadmium	FILT	NA	0.005	mg/L C U	FILT	NA	0.002	mg/L C U	UNFI	NA	0.005	mg/L D U
Cadmium	FILT	NA	0.002	mg/L C U	FILT	NA	0.001	mg/L C U	UNFI	NA	0.002	mg/L D UJ
Calcium	FILT	NA	3.090	mg/L C -	FILT	NA	2.320	mg/L C -	UNFI	NA	0.010	mg/L D U
Calcium	FILT	NA	0.002	mg/L C U	FILT	NA	0.001	mg/L C U	UNFI	NA	0.002	mg/L D UJ
Chromium	FILT	NA	0.002	mg/L C U	FILT	NA	0.003	mg/L C U	UNFI	NA	0.002	mg/L D U
Chromium	FILT	NA	0.002	mg/L C U	FILT	NA	0.005	mg/L C U	UNFI	NA	0.002	mg/L D U
Cobalt	FILT	NA	0.010	mg/L C U	FILT	NA	0.005	mg/L C U	UNFI	NA	0.010	mg/L D U
Cobalt	FILT	NA	0.010	mg/L C U	FILT	NA	0.005	mg/L C U	UNFI	NA	0.010	mg/L D U
Copper	FILT	NA	0.002	mg/L C U	FILT	NA	0.001	mg/L C U	UNFI	NA	0.010	mg/L D U
Copper	FILT	NA	3.090	mg/L C -	FILT	NA	2.320	mg/L C -	UNFI	NA	0.002	mg/L D UJ
Cyanide	UNFI	NA	0.002	mg/L C U	FILT	NA	0.001	mg/L C U	UNFI	NA	0.010	mg/L D U
Iron	FILT	NA	0.002	mg/L C U	FILT	NA	0.003	mg/L C U	UNFI	NA	0.002	mg/L D U
Iron	FILT	NA	0.002	mg/L C U	FILT	NA	0.005	mg/L C U	UNFI	NA	0.002	mg/L D U
Lead	FILT	NA	0.002	mg/L C U	FILT	NA	0.001	mg/L C U	UNFI	NA	4.660	mg/L D -
Lead	FILT	NA	0.002	mg/L C U	FILT	NA	0.001	mg/L C U	UNFI	NA	0.002	mg/L D U
Magnesium	FILT	NA	29.000	mg/L C J	FILT	NA	33.800	mg/L C -	UNFI	NA	31.000	mg/L D -
Magnesium	FILT	NA	0.320	mg/L C -	FILT	NA	0.558	mg/L C -	UNFI	NA	0.279	mg/L D -
Manganese	FILT	NA	0.000	mg/L C U	FILT	NA	0.000	mg/L C U	UNFI	NA	0.000	mg/L D U
Manganese	FILT	NA	0.020	mg/L C U	FILT	NA	0.006	mg/L C U	UNFI	NA	0.010	mg/L D U
Mercury	FILT	NA	0.020	mg/L C U	FILT	NA	0.003	mg/L C U	UNFI	NA	0.020	mg/L D U
Mercury	FILT	NA	0.020	mg/L C U	FILT	NA	0.003	mg/L C U	UNFI	NA	0.020	mg/L D U
Molybdenum	FILT	NA	0.002	mg/L C UJ	FILT	NA	0.001	mg/L C U	UNFI	NA	0.002	mg/L D U
Molybdenum	FILT	NA	0.002	mg/L C U	FILT	NA	0.001	mg/L C U	UNFI	NA	0.002	mg/L D U
Nickel	FILT	NA	0.002	mg/L C U	FILT	NA	0.002	mg/L C U	UNFI	NA	0.002	mg/L D U
Nickel	FILT	NA	0.002	mg/L C U	FILT	NA	0.002	mg/L C U	UNFI	NA	0.002	mg/L D U
Potassium	FILT	NA	3.070	mg/L C -	FILT	NA	1.240	mg/L C -	UNFI	NA	3.190	mg/L D -
Potassium	FILT	NA	0.002	mg/L C UJ	FILT	NA	0.001	mg/L C U	UNFI	NA	0.002	mg/L D U
Selenium	FILT	NA	0.002	mg/L C UJ	FILT	NA	0.001	mg/L C U	UNFI	NA	0.002	mg/L D U
Selenium	FILT	NA	5.940	mg/L C -	FILT	NA	6.470	mg/L C -	UNFI	NA	6.270	mg/L D -
Silicon	FILT	NA	0.010	mg/L C U	FILT	NA	0.002	mg/L C U	UNFI	NA	0.010	mg/L D U
Silicon	FILT	NA	0.010	mg/L C U	FILT	NA	0.002	mg/L C U	UNFI	NA	0.010	mg/L D U
Silver	FILT	NA	0.010	mg/L C U	FILT	NA	0.002	mg/L C U	UNFI	NA	0.010	mg/L D U

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2037	2052	2947									
SAMPLE NUMBER	111540	111546	115473									
SAMPLING DATE	04/22/93	04/29/93	05/19/93									
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ						
<u>Inorganics</u>												
Silver	FILT	NA		FILT	NA		UNFI	0.010	mg/L	D	U	
Sodium	FILT	15.300	mg/L	C J	FILT	12.800	mg/L	C	UNFI	NA		
Sodium	FILT	NA		FILT	NA		UNFI	14.000	mg/L	D	-	
Thallium	FILT	0.002	mg/L	C UJ	FILT	0.001	mg/L	C U	UNFI	NA		
Thallium	FILT	NA		FILT	NA		UNFI	0.002	mg/L	D	UJ	
Vanadium	FILT	0.010	mg/L	C U	FILT	0.008	mg/L	C U	UNFI	NA		
Vanadium	FILT	NA		FILT	NA		UNFI	0.010	mg/L	D	U	
Zinc	FILT	0.005	mg/L	C U	FILT	0.011	mg/L	C U	UNFI	NA		
Zinc	FILT	NA		FILT	NA		UNFI	0.005	mg/L	D	U	
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
1,1-Dichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
1,1-Dichloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
1,2-Dichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
1,2-Dichloropropane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
1,2-Dichloropropene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
2-Butanone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
2-Hexanone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Acetone	UNFI	10.000	ug/L	C U	UNFI	2.000	ug/L	C U	UNFI	10.000	ug/L	D
Benzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Bromodichloromethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Bromoform	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Bromomethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Carbon Tetrachloride	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Carbon disulfide	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Chlorobenzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Chloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Chloroform	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Chloromethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Dibromochloromethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Ethylbenzene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Methylene chloride	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	2.000	ug/L	D
Styrene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Tetrachloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Toluene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Trichloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D
Vinyl Acetate	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D

TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 111540				2052 111546				2947 115473						
SAMPLING DATE	04/22/93				04/29/93				05/19/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Vinyl chloride	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U
Xylenes, Total	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	CCC	UU	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2,4-Dinitrophenol	UNFI	25.000	ug/L	CCC	R	UNFI	50.000	ug/L	C	U	UNFI	25.000	ug/L	D	U
2,4-Dinitrotoluene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2-Benzyl-4-chlorophenol	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2-Chloronaphthalene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2-Chlorophenol	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2-Methylnaphthalene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2-Methylphenol	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
2-Nitroaniline	UNFI	25.000	ug/L	CCC	UU	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U
2-Nitrophenol	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
3-Nitroaniline	UNFI	25.000	ug/L	CCC	R	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	CCC	R	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
4-Methylphenol	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
4-Nitroaniline	UNFI	25.000	ug/L	CCC	UU	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U
4-Nitrophenol	UNFI	25.000	ug/L	CCC	UU	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U
Acenaphthene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Acenaphthylene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Anthracene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Benzo(a)anthracene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Benzo(a)pyrene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	CCC	UU	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 111540				2052 111546				2947 115473						
SAMPLING DATE	04/22/93				04/29/93				05/19/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Benzoic acid	UNFI	50.000	ug/L	C	R	UNFI	50.000	ug/L	C	UJ	UNFI	50.000	ug/L	D	UJ
Benzyl alcohol	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Carbazole	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Chrysene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Di-n-butyl phthalate	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Di-n-octyl phthalate	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Dibenzofuran	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Diethyl phthalate	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Dimethyl phthalate	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Fluoranthene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Fluorene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Hexachlorobenzene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Hexachlorobutadiene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Hexachloroethane	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Isophorone	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
N-Nitrosodimethylamine	UNFI	10.000	ug/L	C	R	NA					UNFI	10.000	ug/L	D	UJ
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Naphthalene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Nitrobenzene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Pentachlorophenol	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	UJ	UNFI	25.000	ug/L	D	UJ
Phenanthrene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Phenol	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Pyrene	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
Tributyl phosphate	UNFI	10.000	ug/L	C	R	NA					UNFI	10.000	ug/L	D	UJ
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
p-Chloroaniline	UNFI	10.000	ug/L	C	R	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	UJ
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	U
4,4'-DDE	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	U
4,4'-DDT	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	U
Aldrin	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	D	U
Aroclor-1016	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	D	U

TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2037 111540	FLTD	RESULTS	UNITS	L	VQ	2052 111546	FLTD	RESULTS	UNITS	L	VQ	2947 115473	FLTD	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>																		
Aroclor-1221	UNFI	2.000	ug/L	C	U	U	UNFI	2.000	ug/L	C	U	U	UNFI	2.000	ug/L	D	U	U
Aroclor-1232	UNFI	1.000	ug/L	C	U	U	UNFI	1.000	ug/L	C	U	U	UNFI	1.000	ug/L	D	U	U
Aroclor-1242	UNFI	1.000	ug/L	C	U	U	UNFI	1.000	ug/L	C	U	U	UNFI	1.000	ug/L	D	U	U
Aroclor-1248	UNFI	1.000	ug/L	C	U	U	UNFI	1.000	ug/L	C	U	U	UNFI	1.000	ug/L	D	U	U
Aroclor-1254	UNFI	1.000	ug/L	C	U	U	UNFI	1.000	ug/L	C	U	U	UNFI	1.000	ug/L	D	U	U
Aroclor-1260	UNFI	1.000	ug/L	C	U	U	UNFI	1.000	ug/L	C	U	U	UNFI	1.000	ug/L	D	U	U
Dieldrin	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	D	U	U
Endosulfan II	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	D	U	U
Endosulfan sulfate	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	D	U	U
Endosulfan-I	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	D	U	U
Endrin	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	D	U	U
Endrin aldehyde	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	D	U	U
Endrin ketone	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	C	U	U	UNFI	0.100	ug/L	D	U	U
Heptachlor	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	D	U	U
Heptachlor epoxide	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	D	U	U
Methoxychlor	UNFI	0.500	ug/L	C	U	U	UNFI	0.500	ug/L	C	U	U	UNFI	0.500	ug/L	D	U	U
Toxaphene	UNFI	5.000	ug/L	C	U	U	UNFI	5.000	ug/L	C	U	U	UNFI	5.000	ug/L	D	U	U
alpha-BHC	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	D	U	U
alpha-Chlordane	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	D	U	U
beta-BHC	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	D	U	U
delta-BHC	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	D	U	U
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	D	U	U
gamma-Chlordane	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	C	U	U	UNFI	0.050	ug/L	D	U	U
<u>General Chemistry</u>																		
Alkalinity	UNFI	235.000	mg/L	B	C	U	UNFI	290.000	mg/kg	B	-	-	UNFI	295.000	mg/L	B	-	-
Ammonia	UNFI	0.150	mg/L	B	C	U	UNFI	0.320	mg/kg	B	-	-	UNFI	0.170	mg/L	B	-	-
Chloride	UNFI	39.250	mg/L	B	C	U	UNFI	23.620	mg/kg	B	-	-	UNFI	34.900	mg/L	B	-	-
Fluoride	UNFI	0.200	mg/L	B	C	U	UNFI	0.280	mg/kg	B	-	-	UNFI	0.150	mg/L	B	-	-
Nitrate	UNFI	0.100	mg/L	B	C	U	UNFI	0.100	mg/kg	B	-	-	UNFI	0.480	mg/L	B	-	-
Phenols	UNFI	0.010	mg/L	B	C	U	UNFI	0.010	mg/kg	B	-	-	UNFI	0.010	mg/L	B	-	-
Phosphorus	UNFI	0.020	mg/L	B	C	U	UNFI	0.040	mg/kg	B	-	-	UNFI	0.030	mg/L	B	-	-
Sulfate	UNFI	184.900	mg/L	B	C	U	UNFI	183.400	mg/kg	B	-	-	UNFI	137.600	mg/L	B	-	-
Sulfide	UNFI	0.500	mg/L	B	C	U	UNFI	0.500	mg/kg	B	-	-	UNFI	5.660	mg/L	B	-	-
Total Kjeldahl Nitrogen	UNFI	0.160	mg/L	B	C	U	UNFI	0.290	mg/kg	B	-	-	NA	-	-	-	-	-
Total Organic Carbon	UNFI	3.200	mg/L	B	C	U	UNFI	1.180	mg/kg	B	-	-	UNFI	1.000	mg/L	B	-	-
Total Organic Halides	UNFI	0.010	mg/L	B	C	U	UNFI	10.000	mg/kg	B	-	-	UNFI	0.024	mg/L	B	-	-
Total Organic Nitrogen	UNFI	0.100	mg/L	B	C	U	UNFI	0.100	mg/kg	B	-	-	UNFI	0.220	mg/L	B	-	-

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2947				2947				2947			
SAMPLE NUMBER	1115475				111572				111574			
SAMPLING DATE	05/19/93				DUPLICATE 05/19/93				DUPLICATE 05/19/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS
<u>Inorganics</u>												
Aluminum	UNFI	0.327	mg/L	C	U	UNFI	0.273	mg/L	C	U	UNFI	0.308
Antimony	UNFI	0.005	mg/L	C	U	UNFI	0.005	mg/L	C	U	UNFI	0.005
Arsenic	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U	UNFI	0.002
Barium	UNFI	0.112	mg/L	C	U	UNFI	0.110	mg/L	C	U	UNFI	0.108
Beryllium	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U	UNFI	0.002
Cadmium	UNFI	0.005	mg/L	C	U	UNFI	0.005	mg/L	C	U	UNFI	0.005
Calcium	UNFI	163.000	mg/L	C	U	UNFI	160.000	mg/L	C	U	UNFI	158.000
Chromium	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	0.010
Cobalt	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	0.010
Copper	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	0.010
Cyanide	NA					UNFI	0.002	mg/L	C	U	NA	
Iron	UNFI	4.970	mg/L	C	U	UNFI	4.730	mg/L	C	U	UNFI	4.740
Lead	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U	UNFI	0.002
Magnesium	UNFI	31.900	mg/L	C	U	UNFI	31.100	mg/L	C	U	UNFI	30.900
Manganese	UNFI	0.287	mg/L	C	U	UNFI	0.280	mg/L	C	U	UNFI	0.277
Mercury	UNFI	0.000	mg/L	C	U	UNFI	0.000	mg/L	C	U	UNFI	0.000
Molybdenum	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	0.010
Nickel	UNFI	0.020	mg/L	C	U	UNFI	0.020	mg/L	C	U	UNFI	0.020
Potassium	UNFI	3.260	mg/L	C	U	UNFI	3.210	mg/L	C	U	UNFI	2.950
Selenium	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U	UNFI	0.002
Silicon	UNFI	6.390	mg/L	C	U	UNFI	6.290	mg/L	C	U	UNFI	6.220
Silver	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	0.010
Sodium	UNFI	14.100	mg/L	C	U	UNFI	14.000	mg/L	C	U	UNFI	13.800
Thallium	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U	UNFI	0.002
Vanadium	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	0.010
Zinc	UNFI	0.005	mg/L	C	U	UNFI	0.005	mg/L	C	U	UNFI	0.005
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	NA					UNFI	10.000	ug/L	C	U	NA	
1,1,2,2-Tetrachloroethane	NA					UNFI	10.000	ug/L	C	U	NA	
1,1,2-Trichloroethane	NA					UNFI	10.000	ug/L	C	U	NA	
1,1-Dichloroethane	NA					UNFI	10.000	ug/L	C	U	NA	
1,1-Dichloroethene	NA					UNFI	10.000	ug/L	C	U	NA	
1,2-Dichloroethane	NA					UNFI	10.000	ug/L	C	U	NA	
1,2-Dichloroethene	NA					UNFI	10.000	ug/L	C	U	NA	
2-Butanone	NA					UNFI	10.000	ug/L	C	U	NA	
2-Hexanone	NA					UNFI	10.000	ug/L	C	U	NA	
4-Methyl-2-pentanone	NA					UNFI	10.000	ug/L	C	U	NA	
Acetone	NA					UNFI	10.000	ug/L	C	U	NA	
Benzene	NA					UNFI	10.000	ug/L	C	U	NA	

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2947 115475	2947 111572 DUPLICATE	2947 111574 DUPLICATE			
SAMPLING DATE	05/19/93	05/19/93	05/19/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
Bromodichloromethane	NA		UNFI	10.000 ug/L C U		NA
Bromoform	NA		UNFI	10.000 ug/L C U		NA
Bromomethane	NA		UNFI	10.000 ug/L C U		NA
Carbon Tetrachloride	NA		UNFI	10.000 ug/L C U		NA
Carbon disulfide	NA		UNFI	10.000 ug/L C U		NA
Chlorobenzene	NA		UNFI	10.000 ug/L C U		NA
Chloroethane	NA		UNFI	10.000 ug/L C U		NA
Chloroform	NA		UNFI	10.000 ug/L C U		NA
Chloromethane	NA		UNFI	10.000 ug/L C U		NA
Dibromochloromethane	NA		UNFI	10.000 ug/L C U		NA
Ethylbenzene	NA		UNFI	10.000 ug/L C U		NA
Methylene chloride	NA		UNFI	10.000 ug/L C U		NA
Styrene	NA		UNFI	10.000 ug/L C U		NA
Tetrachloroethene	NA		UNFI	10.000 ug/L C U		NA
Toluene	NA		UNFI	10.000 ug/L C U		NA
Trichloroethene	NA		UNFI	10.000 ug/L C U		NA
Vinyl Acetate	NA		UNFI	10.000 ug/L C U		NA
Vinyl chloride	NA		UNFI	10.000 ug/L C U		NA
Xylenes, Total	NA		UNFI	10.000 ug/L C U		NA
cis-1,3-Dichloropropene	NA		UNFI	10.000 ug/L C U		NA
trans-1,3-Dichloropropene	NA		UNFI	10.000 ug/L C U		NA
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	NA		UNFI	10.000 ug/L C U		NA
1,2-Dichlorobenzene	NA		UNFI	10.000 ug/L C U		NA
1,3-Dichlorobenzene	NA		UNFI	10.000 ug/L C U		NA
1,4-Dichlorobenzene	NA		UNFI	10.000 ug/L C U		NA
2,4,5-Trichlorophenol	NA		UNFI	25.000 ug/L C U		NA
2,4,6-Trichlorophenol	NA		UNFI	10.000 ug/L C U		NA
2,4-Dichlorophenol	NA		UNFI	10.000 ug/L C U		NA
2,4-Dimethylphenol	NA		UNFI	10.000 ug/L C U		NA
2,4-Dinitrophenol	NA		UNFI	25.000 ug/L C U		NA
2,4-Dinitrotoluene	NA		UNFI	10.000 ug/L C U		NA
2,6-Dinitrotoluene	NA		UNFI	10.000 ug/L C U		NA
2-Benzyl-4-chlorophenol	NA		UNFI	10.000 ug/L C U		NA
2-Chloronaphthalene	NA		UNFI	10.000 ug/L C U		NA
2-Chlorophenol	NA		UNFI	10.000 ug/L C U		NA
2-Methylnaphthalene	NA		UNFI	10.000 ug/L C U		NA
2-Methylphenol	NA		UNFI	10.000 ug/L C U		NA
2-Nitroaniline	NA		UNFI	25.000 ug/L C U		NA
2-Nitrophenol	NA		UNFI	10.000 ug/L C U		NA

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2947		2947		2947											
SAMPLE NUMBER	115475		111572	DUPPLICATE	111574	DUPPLICATE										
SAMPLING DATE	05/19/93		05/19/93		05/19/93											
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Semivolatile Organics</u>																
3,3'-Dichlorobenzidine	NA		UNFI	10.000	ug/L	C	U					NA				
3-Nitroaniline	NA		UNFI	25.000	ug/L	C	U					NA				
4,6-Dinitro-2-methylphenol	NA		UNFI	25.000	ug/L	C	U					NA				
4-Bromophenyl phenyl ether	NA		UNFI	10.000	ug/L	C	U					NA				
4-Chloro-3-methylphenol	NA		UNFI	10.000	ug/L	C	U					NA				
4-Chlorophenylphenyl ether	NA		UNFI	10.000	ug/L	C	U					NA				
4-Methylphenol	NA		UNFI	10.000	ug/L	C	U					NA				
4-Nitroaniline	NA		UNFI	25.000	ug/L	C	U					NA				
4-Nitrophenol	NA		UNFI	25.000	ug/L	C	U					NA				
Acenaphthene	NA		UNFI	10.000	ug/L	C	U					NA				
Acenaphthylene	NA		UNFI	10.000	ug/L	C	U					NA				
Anthracene	NA		UNFI	10.000	ug/L	C	U					NA				
Benzo(a)anthracene	NA		UNFI	10.000	ug/L	C	U					NA				
Benzo(a)pyrene	NA		UNFI	10.000	ug/L	C	U					NA				
Benzo(b)fluoranthene	NA		UNFI	10.000	ug/L	C	U					NA				
Benzo(g,h,i)perylene	NA		UNFI	10.000	ug/L	C	U					NA				
Benzo(k)fluoranthene	NA		UNFI	10.000	ug/L	C	U					NA				
Benzoic acid	NA		UNFI	50.000	ug/L	C	UJ					NA				
Benzyl alcohol	NA		UNFI	10.000	ug/L	C	R					NA				
Butyl benzyl phthalate	NA		UNFI	10.000	ug/L	C	U					NA				
Carbazole	NA		UNFI	10.000	ug/L	C	U					NA				
Chrysene	NA		UNFI	10.000	ug/L	C	U					NA				
Di-n-butyl phthalate	NA		UNFI	10.000	ug/L	C	U					NA				
Di-n-octyl phthalate	NA		UNFI	10.000	ug/L	C	U					NA				
Dibenzo(a,h)anthracene	NA		UNFI	10.000	ug/L	C	U					NA				
Dibenzofuran	NA		UNFI	10.000	ug/L	C	U					NA				
Diethyl phthalate	NA		UNFI	10.000	ug/L	C	U					NA				
Dimethyl phthalate	NA		UNFI	10.000	ug/L	C	U					NA				
Fluoranthene	NA		UNFI	10.000	ug/L	C	U					NA				
Fluorene	NA		UNFI	10.000	ug/L	C	U					NA				
Hexachlorobenzene	NA		UNFI	10.000	ug/L	C	U					NA				
Hexachlorobutadiene	NA		UNFI	10.000	ug/L	C	U					NA				
Hexachlorocyclopentadiene	NA		UNFI	10.000	ug/L	C	U					NA				
Hexachloroethane	NA		UNFI	10.000	ug/L	C	U					NA				
Indeno(1,2,3-cd)pyrene	NA		UNFI	10.000	ug/L	C	U					NA				
Isophorone	NA		UNFI	10.000	ug/L	C	U					NA				
N-Nitroso-di-n-propylamine	NA		UNFI	10.000	ug/L	C	U					NA				
N-Nitrosodimethylamine	NA		UNFI	10.000	ug/L	C	U					NA				
N-Nitrosodiphenylamine	NA		UNFI	10.000	ug/L	C	U					NA				
Naphthalene	NA		UNFI	10.000	ug/L	C	U					NA				
Nitrobenzene	NA		UNFI	10.000	ug/L	C	U					NA				
Pentachlorophenol	NA		UNFI	25.000	ug/L	C	U					NA				

TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2947	SAMPLE NUMBER	1115475		2947	SAMPLE NUMBER	111572		2947	SAMPLE NUMBER	111574				
SAMPLING DATE	05/19/93			DUPPLICATE	05/19/93			DUPPLICATE	05/19/93		<th></th> <td></td> <td></td>				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Phenanthrene		NA				UNFI	10.000	ug/L	C	U		NA			
Pheno1		NA				UNFI	10.000	ug/L	C	U		NA			
Pyrene		NA				UNFI	10.000	ug/L	C	U		NA			
Tributyl phosphate		NA				UNFI	10.000	ug/L	C	U		NA			
bis(2-Chloroethoxy)methane		NA				UNFI	10.000	ug/L	C	U		NA			
bis(2-Chloroethyl)ether		NA				UNFI	10.000	ug/L	C	U		NA			
bis(2-Chloroisopropyl) ether		NA				UNFI	10.000	ug/L	C	U		NA			
bis(2-Ethylhexyl) phthalate		NA				UNFI	10.000	ug/L	C	U		NA			
p-Chloroaniline		NA				UNFI	10.000	ug/L	C	U		NA			
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD		NA				UNFI	0.100	ug/L	C	U		NA			
4,4'-DDE		NA				UNFI	0.100	ug/L	C	U		NA			
4,4'-DDT		NA				UNFI	0.100	ug/L	C	U		NA			
Aldrin		NA				UNFI	0.050	ug/L	C	U		NA			
Aroclor-1016		NA				UNFI	1.000	ug/L	C	U		NA			
Aroclor-1221		NA				UNFI	2.000	ug/L	C	U		NA			
Aroclor-1232		NA				UNFI	1.000	ug/L	C	U		NA			
Aroclor-1242		NA				UNFI	1.000	ug/L	C	U		NA			
Aroclor-1248		NA				UNFI	1.000	ug/L	C	U		NA			
Aroclor-1254		NA				UNFI	1.000	ug/L	C	U		NA			
Aroclor-1260		NA				UNFI	1.000	ug/L	C	U		NA			
Dieldrin		NA				UNFI	0.100	ug/L	C	U		NA			
Endosulfan II		NA				UNFI	0.100	ug/L	C	U		NA			
Endosulfan sulfate		NA				UNFI	0.100	ug/L	C	U		NA			
Endosulfan-I		NA				UNFI	0.050	ug/L	C	U		NA			
Endrin		NA				UNFI	0.100	ug/L	C	U		NA			
Endrin aldehyde		NA				UNFI	0.100	ug/L	C	U		NA			
Endrin ketone		NA				UNFI	0.100	ug/L	C	U		NA			
Heptachlor		NA				UNFI	0.050	ug/L	C	U		NA			
Heptachlor epoxide		NA				UNFI	0.050	ug/L	C	U		NA			
Methoxychlor		NA				UNFI	0.500	ug/L	C	U		NA			
Toxaphene		NA				UNFI	5.000	ug/L	C	U		NA			
alpha-BHC		NA				UNFI	0.050	ug/L	C	U		NA			
beta-BHC		NA				UNFI	0.050	ug/L	C	U		NA			
delta-BHC		NA				UNFI	0.050	ug/L	C	U		NA			
gamma-BHC (Lindane)		NA				UNFI	0.050	ug/L	C	U		NA			
gamma-Chlordane		NA				UNFI	0.050	ug/L	C	U		NA			
<u>General Chemistry</u>															
Alkalinity		NA				UNFI	293.000	mg/L	B	-		NA			

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2947	2947	2947
SAMPLE NUMBER	115475	111572	111574
SAMPLING DATE	05/19/93	DUPPLICATE 05/19/93	DUPPLICATE 05/19/93
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD RESULTS UNITS L VQ
<u>General Chemistry</u>			
Ammonia	NA	UNFI 0.180 mg/L B	NA
Chloride	NA	UNFI 35.100 mg/L B	NA
Fluoride	NA	UNFI 0.180 mg/L B	NA
Nitrate	NA	UNFI 0.460 mg/L B	NA
Phenols	NA	UNFI 0.010 mg/L B	NA
Phosphorus	NA	UNFI 0.020 mg/L B	NA
Sulfate	NA	UNFI 135.300 mg/L B	NA
Sulfide	NA	UNFI 13.180 mg/L B	NA
Total Organic Carbon	NA	UNFI 1.000 mg/L B	NA
Total Organic Halides	NA	UNFI 0.023 mg/L B	NA
Total Organic Nitrogen	NA	UNFI 0.110 mg/L B	NA

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2949 111489				2949 115479				2951 111536							
SAMPLING DATE	04/17/93				05/26/93				05/01/93							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																
Aluminum	UNKN	NA				UNFI	0.313	mg/L	C	U	UNFI	0.069	mg/L	C	-	
Aluminum		0.220	mg/L	C	U							NA	0.002	mg/L	C	UJ
Antimony	UNKN	NA				UNFI	0.005	mg/L	C	U	UNFI	NA				
Antimony	UNKN	0.003	mg/L	C	-							NA	0.001	mg/L	C	U
Arsenic	UNKN	NA				UNFI	0.002	mg/L	C	-	UNFI	NA				
Arsenic	UNKN	0.002	mg/L	C	UJ							NA	0.090	mg/L	C	J
Barium	UNKN	NA				UNFI	0.090	mg/L	C	-	UNFI	NA				
Barium	UNKN	0.094	mg/L	C	-							NA	0.003	mg/L	C	U
Beryllium	UNKN	NA				UNFI	0.002	mg/L	C	U	UNFI	NA				
Beryllium	UNKN	0.002	mg/L	C	U							NA	0.002	mg/L	C	U
Cadmium	UNKN	NA				UNFI	0.005	mg/L	C	U	UNFI	NA				
Cadmium	UNKN	0.005	mg/L	C	U							NA	121.000	mg/L	C	-
Calcium	UNKN	NA				UNFI	109.000	mg/L	C	-	UNFI	NA				
Calcium	UNKN	111.000	mg/L	C	-							NA	0.004	mg/L	C	U
Chromium	UNKN	NA				UNFI	0.010	mg/L	C	U	UNFI	NA				
Chromium	UNKN	0.010	mg/L	C	U							NA	0.003	mg/L	C	U
Cobalt	UNKN	NA				UNFI	0.010	mg/L	C	U	UNFI	NA				
Cobalt	UNKN	0.010	mg/L	C	U							NA	0.002	mg/L	C	U
Copper	UNKN	NA				UNFI	0.010	mg/L	C	UJ	UNFI	NA				
Cyanide	UNKN	0.010	mg/L	C	U							NA	0.001	mg/L	C	U
Cyanide	UNKN	NA										NA	3.760	mg/L	C	-
Iron	UNKN	0.002	mg/L	C	U	UNFI	3.010	mg/L	C	-	UNFI	NA				
Iron	UNKN	NA										NA	0.001	mg/L	C	U
Lead	UNKN	3.090	mg/L	C	-	UNFI	NA					NA	26.300	mg/L	C	-
Lead	UNKN	NA										NA	0.315	mg/L	C	-
Magnesium	UNKN	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U	UNFI	NA				
Magnesium	UNKN	NA										NA	0.000	mg/L	C	U
Manganese	UNKN	25.600	mg/L	C	-	UNFI	24.300	mg/L	C	-	UNFI	NA				
Manganese	UNKN	NA										NA	2.440	mg/L	C	-
Mercury	UNKN	0.218	mg/L	C	-	UNFI	0.202	mg/L	C	-	UNFI	NA				
Mercury	UNKN	NA										NA	0.003	mg/L	C	U
Molybdenum	UNKN	0.000	mg/L	C	U	UNFI	0.000	mg/L	C	U	UNFI	NA				
Molybdenum	UNKN	NA										NA	0.004	mg/L	C	U
Nickel	UNKN	0.020	mg/L	C	U	UNFI	0.010	mg/L	C	U	UNFI	NA				
Nickel	UNKN	NA										NA	0.001	mg/L	C	U
Potassium	UNKN	0.020	mg/L	C	U	UNFI	0.020	mg/L	C	U	UNFI	NA				
Potassium	UNKN	NA										NA	6.480	mg/L	C	-
Selenium	UNKN	1.680	mg/L	C	-	UNFI	1.600	mg/L	C	-	UNFI	NA				
Selenium	UNKN	NA										NA	0.001	mg/L	C	U
Silicon	UNKN	0.002	mg/L	C	U	UNFI	0.002	mg/L	C	U	UNFI	NA				
Silicon	UNKN	NA										NA	6.190	mg/L	C	-
Silicon	UNKN	6.220	mg/L	C	-							NA				

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2949 111489			2949 115479			2951 111536		
SAMPLING DATE	04/17/93			05/26/93			05/01/93		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Inorganics</u>									
Silver	UNKN	NA		UNFI	0.010	mg/L C U	UNFI	0.002	mg/L C U
Silver	UNKN	0.010	mg/L C U	UNFI	NA		UNFI	NA	
Sodium	UNKN	NA		UNFI	11.500	mg/L C -	UNFI	12.900	mg/L C -
Sodium	UNKN	11.700	mg/L C -	UNFI	NA		UNFI	NA	
Thallium	UNKN	NA		UNFI	0.002	mg/L C U	UNFI	0.001	mg/L C U
Thallium	UNKN	0.002	mg/L C U	UNFI	NA		UNFI	NA	
Vanadium	UNKN	NA		UNFI	0.010	mg/L C U	UNFI	0.008	mg/L C U
Vanadium	UNKN	0.010	mg/L C U	UNFI	NA		UNFI	NA	
Zinc	UNKN	NA		UNFI	0.012	mg/L C -	UNFI	0.004	mg/L C U
Zinc	UNKN	0.005	mg/L C U	UNFI	NA		UNFI	NA	
<u>Volatile Organics</u>									
1,1,1-Trichloroethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
1,1,2-Trichloroethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
1,1-Dichloroethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
1,1-Dichloroethene	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
1,2-Dichloroethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
1,2-Dichloroethene	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
1,2-Dichloropropane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
2-Butanone	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
2-Hexanone	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
4-Methyl-2-pentanone	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Acetone	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Benzene	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Bromodichloromethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Bromoform	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Bromomethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Carbon Tetrachloride	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Carbon disulfide	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Chlorobenzene	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Chloroethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Chloroform	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Chloromethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Dibromochloromethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Ethylbenzene	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Methylene chloride	UNFI	100.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Styrene	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Tetrachloroethene	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Toluene	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U
Trichloroethene	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C U

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2949 111489				2949 115479				2951 111536						
SAMPLING DATE	04/17/93				05/26/93				05/01/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Vinyl Acetate	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Vinyl chloride	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Xylenes, Total	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Chloronaphthalene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Chlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
2-Nitrophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
3-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4-Nitrophenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
Acenaphthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Acenaphthylene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2949 111489	2949 115479	2951 111536			
SAMPLING DATE	04/17/93	05/26/93	05/01/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
Benzoic acid	UNFI	50.000 ug/L C U	NA		UNFI	50.000 ug/L C R
Benzyl alcohol	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Butyl benzyl phthalate	UNFI	1.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Carbazole	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Chrysene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Di-n-butyl phthalate	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Di-n-octyl phthalate	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C R
Dibenz(a,h)anthracene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Dibenzofuran	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Diethyl phthalate	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Dimethyl phthalate	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Fluoranthene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Fluorene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Hexachlorobenzene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Hexachlorobutadiene	UNFI	10.000 ug/L C R	NA		UNFI	10.000 ug/L C U
Hexachlorocyclopentadiene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Hexachloroethane	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Indeno(1,2,3-cd)pyrene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Isophorone	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
N-Nitroso-di-n-propylamine	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
N-Nitrosodiphenylamine	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Naphthalene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Nitrobenzene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Pentachlorophenol	UNFI	25.000 ug/L C U	NA		UNFI	25.000 ug/L C U
Phenanthrene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Phenol	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
Pyrene	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
bis(2-Chloroethoxy)methane	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
bis(2-Chloroethyl)ether	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
bis(2-Chloroisopropyl) ether	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
bis(2-Ethylhexyl) phthalate	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
p-Chloroaniline	UNFI	10.000 ug/L C U	NA		UNFI	10.000 ug/L C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	UNFI	0.100 ug/L C U	NA		UNFI	0.100 ug/L C U
4,4'-DDE	UNFI	0.100 ug/L C U	NA		UNFI	0.100 ug/L C U
4,4'-DDT	UNFI	0.100 ug/L C U	NA		UNFI	0.100 ug/L C U
Aldrin	UNFI	0.050 ug/L C U	NA		UNFI	0.050 ug/L C U
Aroclor-1016	UNFI	1.000 ug/L C U	NA		UNFI	1.000 ug/L C U
Aroclor-1221	UNFI	2.000 ug/L C U	NA		UNFI	2.000 ug/L C U
Aroclor-1232	UNFI	1.000 ug/L C U	NA		UNFI	1.000 ug/L C U

TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2949 111489	2949 115479	2951 111536								
SAMPLING DATE	04/17/93	05/26/93	05/01/93								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ		
<u>Pesticide Organics/PCBs</u>											
Aroclor-1242	UNFI	1.000	ug/L	C	U	NA	UNFI	1.000	ug/L	C	CCCC
Aroclor-1248	UNFI	1.000	ug/L	C	U	NA	UNFI	1.000	ug/L	C	CCCC
Aroclor-1254	UNFI	1.000	ug/L	C	U	NA	UNFI	1.000	ug/L	C	CCCC
Aroclor-1260	UNFI	1.000	ug/L	C	U	NA	UNFI	1.000	ug/L	C	CCCC
Dieldrin	UNFI	0.100	ug/L	C	U	NA	UNFI	0.100	ug/L	C	CCCC
Endosulfan II	UNFI	0.100	ug/L	C	U	NA	UNFI	0.100	ug/L	C	CCCC
Endosulfan sulfate	UNFI	0.100	ug/L	C	U	NA	UNFI	0.100	ug/L	C	CCCC
Endosulfan-I	UNFI	0.050	ug/L	C	U	NA	UNFI	0.050	ug/L	C	CCCC
Endrin	UNFI	0.100	ug/L	C	U	NA	UNFI	0.100	ug/L	C	CCCC
Endrin aldehyde	UNFI	0.100	ug/L	C	U	NA	UNFI	0.100	ug/L	C	CCCC
Endrin ketone	UNFI	0.100	ug/L	C	U	NA	UNFI	0.100	ug/L	C	CCCC
Heptachlor	UNFI	0.050	ug/L	C	U	NA	UNFI	0.050	ug/L	C	CCCC
Heptachlor epoxide	UNFI	0.050	ug/L	C	U	NA	UNFI	0.050	ug/L	C	CCCC
Methoxychlor	UNFI	0.500	ug/L	C	U	NA	UNFI	0.500	ug/L	C	CCCC
Toxaphene	UNFI	5.000	ug/L	C	U	NA	UNFI	5.000	ug/L	C	CCCC
alpha-BHC	UNFI	0.050	ug/L	C	U	NA	UNFI	0.050	ug/L	C	CCCC
alpha-Chlordane	UNFI	0.050	ug/L	C	U	NA	UNFI	0.050	ug/L	C	CCCC
beta-BHC	UNFI	0.050	ug/L	C	U	NA	UNFI	0.050	ug/L	C	CCCC
delta-BHC	UNFI	0.050	ug/L	C	U	NA	UNFI	0.050	ug/L	C	CCCC
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U	NA	UNFI	0.050	ug/L	C	CCCC
gamma-Chlordane	UNFI	0.050	ug/L	C	U	NA	UNFI	0.050	ug/L	C	CCCC
<u>General Chemistry</u>											
Alkalinity	UNFI	271.000	mg/kg	B	-	NA	UNFI	260.000	mg/L	B	-----
Ammonia	UNFI	0.240	mg/kg	B	-	NA	UNFI	0.100	mg/L	B	-----
Chloride	UNFI	27.740	mg/kg	B	-	NA	UNFI	30.870	mg/L	B	-----
Fluoride	UNFI	0.260	mg/kg	B	-	NA	UNFI	0.220	mg/L	B	-----
Nitrate	UNFI	0.100	mg/kg	B	-	NA	UNFI	0.100	mg/L	B	-----
Phenols	UNFI	0.010	mg/kg	B	-	NA	UNFI	0.010	mg/L	B	-----
Phosphorus	UNFI	0.020	mg/kg	B	-	NA	UNFI	NA	-----	-----	-----
Sulfate	UNFI	109.500	mg/kg	B	-	NA	UNFI	128.400	mg/L	B	-----
Sulfide	UNFI	0.500	mg/kg	B	-	NA	UNFI	0.500	mg/L	B	-----
Total Kjeldahl Nitrogen	UNFI	0.350	mg/kg	B	-	NA	UNFI	0.220	mg/L	B	-----
Total Organic Carbon	UNFI	1.000	mg/kg	B	-	NA	UNFI	1.000	mg/L	B	-----
Total Organic Halides	UNFI	10.000	mg/kg	B	-	NA	UNFI	0.010	mg/L	B	-----
Total Organic Nitrogen	UNFI	0.102	mg/kg	B	-	NA	UNFI	0.220	mg/L	B	-----
Total Phosphorous	UNFI	NA	-----	-----	-----	NA	UNFI	0.100	mg/L	B	-----

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2951				2953			
SAMPLE NUMBER	115478				115488			
SAMPLING DATE	05/25/93				06/23/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS
<u>Inorganics</u>								
Aluminum	UNFI	NA	mg/L	C	-	FILT	0.243	mg/L
Aluminum	UNFI	1.230	mg/L	C	-	UNFI	0.672	mg/L
Antimony	UNFI	NA	mg/L	C	U	FILT	0.005	mg/L
Antimony	UNFI	0.005	mg/L	C	U	UNFI	0.005	mg/L
Arsenic	UNFI	NA	mg/L	C	-	FILT	0.002	mg/L
Arsenic	UNFI	0.002	mg/L	C	-	UNFI	0.002	mg/L
Barium	UNFI	NA	mg/L	C	-	FILT	0.096	mg/L
Barium	UNFI	0.094	mg/L	C	-	UNFI	0.091	mg/L
Beryllium	UNFI	NA	mg/L	C	-	FILT	0.002	mg/L
Beryllium	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L
Cadmium	UNFI	NA	mg/L	C	U	FILT	0.005	mg/L
Cadmium	UNFI	0.005	mg/L	C	U	UNFI	0.005	mg/L
Calcium	UNFI	NA	mg/L	C	-	FILT	167.000	mg/L
Calcium	UNFI	142.000	mg/L	C	-	UNFI	161.000	mg/L
Chromium	UNFI	NA	mg/L	C	-	FILT	0.010	mg/L
Chromium	UNFI	0.020	mg/L	C	-	UNFI	0.010	mg/L
Cobalt	UNFI	NA	mg/L	C	-	FILT	0.010	mg/L
Cobalt	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L
Copper	UNFI	NA	mg/L	C	U	FILT	0.010	mg/L
Copper	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L
Cyanide	UNFI	NA	mg/L	C	-	FILT	0.002	mg/L
Iron	UNFI	NA	mg/L	C	-	FILT	5.640	mg/L
Iron	UNFI	7.230	mg/L	C	-	UNFI	6.710	mg/L
Lead	UNFI	NA	mg/L	C	-	FILT	0.002	mg/L
Lead	UNFI	0.004	mg/L	C	-	UNFI	0.003	mg/L
Magnesium	UNFI	NA	mg/L	C	-	FILT	32.600	mg/L
Magnesium	UNFI	28.900	mg/L	C	-	UNFI	31.700	mg/L
Manganese	UNFI	NA	mg/L	C	-	FILT	0.381	mg/L
Manganese	UNFI	0.324	mg/L	C	-	UNFI	0.370	mg/L
Mercury	UNFI	NA	mg/L	C	-	FILT	0.000	mg/L
Mercury	UNFI	0.000	mg/L	C	U	UNFI	0.000	mg/L
Molybdenum	UNFI	NA	mg/L	C	-	FILT	0.010	mg/L
Molybdenum	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L
Nickel	UNFI	NA	mg/L	C	-	FILT	0.020	mg/L
Nickel	UNFI	0.020	mg/L	C	U	UNFI	0.020	mg/L
Potassium	UNFI	NA	mg/L	C	-	FILT	2.800	mg/L
Potassium	UNFI	2.700	mg/L	C	-	UNFI	2.760	mg/L
Selenium	UNFI	NA	mg/L	C	U	FILT	0.002	mg/L
Selenium	UNFI	0.002	mg/L	C	U	UNFI	0.002	mg/L
Silicon	UNFI	NA	mg/L	C	-	FILT	6.620	mg/L
Silicon	UNFI	8.100	mg/L	C	-	UNFI	6.600	mg/L
Silver	UNFI	NA	mg/L	C	-	FILT	0.010	mg/L

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2951 115478				2953 115488			
SAMPLING DATE	05/25/93				06/23/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>								
Silver	UNFI	0.010	mg/L	C U	UNFI	0.010	mg/L	C U
Sodium	NA				FILT	18.200	mg/L	CCC
Sodium	UNFI	12.800	mg/L	C -	UNFI	17.500	mg/L	CCC
Thallium	NA				FILT	0.002	mg/L	CCC
Thallium	UNFI	0.002	mg/L	C UJ	UNFI	0.002	mg/L	C
Vanadium	NA				FILT	0.010	mg/L	CCC
Vanadium	UNFI	0.010	mg/L	C U	UNFI	0.010	mg/L	C
Zinc	NA				FILT	0.007	mg/L	CCC
Zinc	UNFI	0.016	mg/L	C -	UNFI	0.058	mg/L	C
<u>Volatile Organics</u>								
1,1,1-Trichloroethane	NA				UNFI	10.000	ug/L	CCC
1,1,2,2-Tetrachloroethane	NA				UNFI	10.000	ug/L	CCC
1,1,2-Trichloroethane	NA				UNFI	10.000	ug/L	CCC
1,1-Dichloroethane	NA				UNFI	10.000	ug/L	CCC
1,1-Dichloroethene	NA				UNFI	10.000	ug/L	CCC
1,2-Dichloroethane	NA				UNFI	10.000	ug/L	CCC
1,2-Dichloroethene	NA				UNFI	10.000	ug/L	CCC
1,2-Dichloropropane	NA				UNFI	10.000	ug/L	CCC
2-Butanone	NA				UNFI	10.000	ug/L	CCC
2-Hexanone	NA				UNFI	10.000	ug/L	CCC
4-Methyl-2-pentanone	NA				UNFI	10.000	ug/L	CCC
Acetone	NA				UNFI	10.000	ug/L	CCC
Benzene	NA				UNFI	10.000	ug/L	CCC
Bromodichloromethane	NA				UNFI	10.000	ug/L	CCC
Bromoform	NA				UNFI	10.000	ug/L	CCC
Bromomethane	NA				UNFI	10.000	ug/L	CCC
Carbon Tetrachloride	NA				UNFI	10.000	ug/L	CCC
Carbon disulfide	NA				UNFI	10.000	ug/L	CCC
Chlorobenzene	NA				UNFI	10.000	ug/L	CCC
Chloroethane	NA				UNFI	10.000	ug/L	CCC
Chloroform	NA				UNFI	10.000	ug/L	CCC
Chloromethane	NA				UNFI	10.000	ug/L	CCC
Dibromochloromethane	NA				UNFI	10.000	ug/L	CCC
Ethylbenzene	NA				UNFI	10.000	ug/L	CCC
Methylene chloride	NA				UNFI	10.000	ug/L	CCC
Styrene	NA				UNFI	10.000	ug/L	CCC
Tetrachloroethene	NA				UNFI	10.000	ug/L	CCC
Toluene	NA				UNFI	10.000	ug/L	CCC
Trichloroethene	NA				UNFI	10.000	ug/L	CCC
Vinyl chloride	NA				UNFI	10.000	ug/L	CCC

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2951	SAMPLE NUMBER	115478					2953		
SAMPLING DATE	05/25/93					06/23/93				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>										
Xylenes, Total		NA				UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene		NA				UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene		NA				UNFI	10.000	ug/L	C	U
<u>Semivolatile Organics</u>										
1,2-Dichlorobenzene		NA				UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene		NA				UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene		NA				UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol		NA				UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol		NA				UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol		NA				UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol		NA				UNFI	50.000	ug/L	C	U
2,6-Dinitrotoluene		NA				UNFI	10.000	ug/L	C	U
2-Benzyl-4-chlorophenol		NA				UNFI	10.000	ug/L	C	U
2-Chloronaphthalene		NA				UNFI	10.000	ug/L	C	U
2-Chlorophenol		NA				UNFI	10.000	ug/L	C	U
2-Methylnaphthalene		NA				UNFI	10.000	ug/L	C	U
2-Methylphenol		NA				UNFI	10.000	ug/L	C	U
2-Nitroaniline		NA				UNFI	25.000	ug/L	C	U
2-Nitrophenol		NA				UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine		NA				UNFI	10.000	ug/L	C	U
3-Nitroaniline		NA				UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol		NA				UNFI	25.000	ug/L	C	U
4-Bromophenyl phenyl ether		NA				UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol		NA				UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether		NA				UNFI	10.000	ug/L	C	U
4-Methylphenol		NA				UNFI	10.000	ug/L	C	U
4-Nitroaniline		NA				UNFI	25.000	ug/L	C	U
4-Nitrophenol		NA				UNFI	25.000	ug/L	C	U
Acenaphthene		NA				UNFI	10.000	ug/L	C	U
Acenaphthylene		NA				UNFI	10.000	ug/L	C	U
Anthracene		NA				UNFI	10.000	ug/L	C	U
Benzo(a)anthracene		NA				UNFI	10.000	ug/L	C	U
Benzo(a)pyrene		NA				UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene		NA				UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene		NA				UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene		NA				UNFI	10.000	ug/L	C	U
Benzoic acid		NA				UNFI	50.000	ug/L	C	U
Benzyl alcohol		NA				UNFI	10.000	ug/L	C	U
Butyl benzyl phthalate		NA				UNFI	1.000	ug/L	C	U
Carbazole		NA				UNFI	10.000	ug/L	C	U

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2951	2953		
SAMPLE NUMBER	115478	115488		
SAMPLING DATE	05/25/93	06/23/93		
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>				
Chrysene	NA		UNFI	10.000 ug/L C U
Di-n-butyl phthalate	NA		UNFI	10.000 ug/L C U
Di-n-octyl phthalate	NA		UNFI	10.000 ug/L C C
Dibenzo(a,h)anthracene	NA		UNFI	10.000 ug/L C C
Dibenzofuran	NA		UNFI	10.000 ug/L C C
Diethyl phthalate	NA		UNFI	10.000 ug/L C C
Dimethyl phthalate	NA		UNFI	10.000 ug/L C C
Fluoranthene	NA		UNFI	10.000 ug/L C C
Fluorene	NA		UNFI	10.000 ug/L C C
Hexachlorobenzene	NA		UNFI	10.000 ug/L C C
Hexachlorobutadiene	NA		UNFI	10.000 ug/L C C
Hexachlorocyclopentadiene	NA		UNFI	10.000 ug/L C C
Hexachloroethane	NA		UNFI	10.000 ug/L C C
Indeno(1,2,3-cd)pyrene	NA		UNFI	10.000 ug/L C C
Isophorone	NA		UNFI	10.000 ug/L C C
N-Nitroso-di-n-propylamine	NA		UNFI	10.000 ug/L C C
N-Nitrosodimethylamine	NA		UNFI	10.000 ug/L C C
N-Nitrosodiphenylamine	NA		UNFI	10.000 ug/L C C
Naphthalene	NA		UNFI	10.000 ug/L C C
Nitrobenzene	NA		UNFI	10.000 ug/L C C
Pentachlorophenol	NA		UNFI	25.000 ug/L C C
Phenanthrene	NA		UNFI	10.000 ug/L C C
Phenol	NA		UNFI	10.000 ug/L C C
Pyrene	NA		UNFI	10.000 ug/L C C
Tributyl phosphate	NA		UNFI	10.000 ug/L C C
bis(2-Chloroethoxy)methane	NA		UNFI	10.000 ug/L C C
bis(2-Chloroethyl)ether	NA		UNFI	10.000 ug/L C C
bis(2-Chloroisopropyl) ether	NA		UNFI	10.000 ug/L C C
bis(2-Ethylhexyl) phthalate	NA		UNFI	10.000 ug/L C C
p-Chloroaniline	NA		UNFI	10.000 ug/L C C
<u>Pesticide Organics/PCBs</u>				
4,4'-DDD	NA		UNFI	0.100 ug/L C C
4,4'-DDE	NA		UNFI	0.100 ug/L C C
4,4'-DDT	NA		UNFI	0.100 ug/L C C
Aldrin	NA		UNFI	0.050 ug/L C C
Aroclor-1016	NA		UNFI	1.000 ug/L C C
Aroclor-1221	NA		UNFI	2.000 ug/L C C
Aroclor-1232	NA		UNFI	1.000 ug/L C C
Aroclor-1242	NA		UNFI	1.000 ug/L C C
Aroclor-1248	NA		UNFI	1.000 ug/L C C

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TABLE C-12A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2951 115478			2953 115488		
SAMPLING DATE	05/25/93			06/23/93		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
Aroclor-1254	NA			UNFI	1.000	ug/L C U
Aroclor-1260	NA			UNFI	1.000	ug/L C U
Dieldrin	NA			UNFI	0.100	ug/L C U
Endosulfan II	NA			UNFI	0.100	ug/L C U
Endosulfan sulfate	NA			UNFI	0.100	ug/L C U
Endosulfan-I	NA			UNFI	0.050	ug/L C U
Endrin	NA			UNFI	0.100	ug/L C U
Endrin aldehyde	NA			UNFI	0.100	ug/L C U
Endrin ketone	NA			UNFI	0.050	ug/L C U
Heptachlor	NA			UNFI	0.050	ug/L C U
Heptachlor epoxide	NA			UNFI	0.500	ug/L C U
Methoxychlor	NA			UNFI	5.000	ug/L C U
Toxaphene	NA			UNFI	0.050	ug/L C U
alpha-BHC	NA			UNFI	0.050	ug/L C U
alpha-Chlordane	NA			UNFI	0.050	ug/L C U
beta-BHC	NA			UNFI	0.050	ug/L C U
delta-BHC	NA			UNFI	0.050	ug/L C U
gamma-BHC (Lindane)	NA			UNFI	0.050	ug/L C U
gamma-Chlordane	NA			UNFI	0.050	ug/L C U
<u>General Chemistry</u>						
Alkalinity	NA			UNFI	313.000	mg/L B -
Ammonia	NA			UNFI	0.100	mg/L B -
Chloride	NA			UNFI	59.200	mg/L B -
Fluoride	NA			UNFI	0.170	mg/L B -
Nitrate	NA			UNFI	0.100	mg/L B R
Phenols	NA			UNFI	0.010	mg/L B U
Phosphorus	NA			UNFI	0.040	mg/L B -
Sulfate	NA			UNFI	243.200	mg/L B -
Sulfide	NA			UNFI	0.500	mg/L B -
Total Kjeldahl Nitrogen	NA			UNFI	0.110	mg/L B -
Total Organic Carbon	NA			UNFI	1.000	mg/L B -
Total Organic Halides	NA			UNFI	0.010	mg/L B -
Total Organic Nitrogen	NA			UNFI	0.110	mg/L B -

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TABLE C-12B
SOLID WASTE LANDFILL
TENTATIVELY IDENTIFIED COMPOUNDS
WATER

Sample Number	Sample Location	Media	Parameter	Result	Units
111540	2037	GW	2-hexenal, (e)-	5	ug/L
111552	1035	GW	propanoic acid, 2-methyl-	4	ug/L
115468	1952	GW	azacyclotridecan	33	ug/L
115480	1950	GW	heptane, 2,2,4,6,6-pentameth	9	ug/L
115480	1950	GW	1-hexanol, 2-ethyl-	47	ug/L
115480	1950	GW	nonane, 2,3-dimethyl-	190	ug/L
115480	1950	GW	phenol, 2,6-bis(1,1-dimethyl	3	ug/L
115480	1950	GW	hexadecane	2	ug/L
115480	1950	GW	octane, 1,1'-oxybis-	5	ug/L
115480	1950	GW	arsenosous acid, tris(trimethyl	4	ug/L
115480	1950	GW	cyclotrisiloxane, hexamethyl	11	ug/L
115480	1950	GW	arsenosous acid, tris(trimethyl	4	ug/L
115480	1950	GW	cyclotrisiloxane, hexamethyl	13	ug/L
115480	1950	GW	cyclotrisiloxane, hexamethyl	14	ug/L
115480	1950	GW	cyclotrisiloxane, hexamethyl	12	ug/L
115480	1950	GW	cyclotrisiloxane, hexamethyl	14	ug/L
115486	FIELD BLANK	FB	cyclohexanone, 2-hydroxy-	6	ug/L
115488	2953	GW	2-pentanone, 4-hydroxy-4-met	3	ug/L

GW - groundwater

FB - field blank

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TABLE C-13

SOLID WASTE LANDFILL
GROUNDWATER SAMPLES - ENVIRONMENTAL SURVEY
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Analyte	Samples from Test Pit No. 8		
	10151S3B	10151S4B	10151S5B
METALS (mg/L)			
Arsenic	< 0.5	< 0.5	NA ^a
Barium	0.18(B) ^b	0.19(B)	NA
Cadmium	< 0.02	< 0.02	NA
Chromium	0.04	0.05	NA
Lead	< 0.3	< 0.3	NA
Mercury	NA	0.001	NA
Selenium	< 0.5	< 0.5	NA
Silver	< 0.1	< 0.1	NA
RADIOMUCLIDES (pCi/g)			
Bismuth-214	NA	NA	I ^c
Cesium-137	NA	NA	I
Radium-226	NA	NA	I
Thorium-228	NA	NA	I
Thorium-232	NA	NA	I
Uranium-235	NA	NA	N ^d
Uranium-238	NA	NA	N
Total Uranium (mg/kg)	2230	3270	NA

^aNA = Not Analyzed^bB = Analyte was found in the blank as well as the sample^cI = Nuclide identified by GAMANAL analysis of sample spectrum, but values did not exceed room background at the 95% confidence level; no value reported^dN = Nuclide not identified by GAMANAL analysis as being in the sample; revalue reports

TABLE C-14
SOLID WASTE LANDFILL
RI/FS IN-SITU LEACHATE RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 1 039151			TRENCH 2 039160			TRENCH 2 039163		
SAMPLING DATE	07/07/92			07/15/92			07/16/92		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	20.000	pCi/L	J	20.000	pCi/L	U	20.000	pCi/L	U
GROSS ALPHA	254.000	pCi/L	NV	321.000	pCi/L	NV	697.000	pCi/L	NV
GROSS BETA	48.100	pCi/L	NV	105.000	pCi/L	NV	243.000	pCi/L	NV
NP-237	1.000	pCi/L	J	1.000	pCi/L	J	1.000	pCi/L	J
PU-238	1.000	pCi/L	J	1.000	pCi/L	J	1.000	pCi/L	J
PU-239/240	1.000	pCi/L	J	1.000	pCi/L	J	1.000	pCi/L	J
RA-226	1.000	pCi/L	J	1.000	pCi/L	J	1.000	pCi/L	J
RA-228	3.000	pCi/L	J	3.000	pCi/L	J	3.000	pCi/L	J
RU-106	150.000	pCi/L	J	150.000	pCi/L	J	150.000	pCi/L	J
SR-90	5.000	pCi/L	R	5.000	pCi/L	J	5.000	pCi/L	J
TC-99	30.000	pCi/L	J	30.000	pCi/L	J	30.000	pCi/L	J
TH-228	1.000	pCi/L	J	1.000	pCi/L	J	1.000	pCi/L	J
TH-230	1.000	pCi/L	J	1.000	pCi/L	J	1.000	pCi/L	J
TH-232	1.000	pCi/L	J	1.000	pCi/L	J	1.000	pCi/L	J
TH-TOTAL	1.360	ug/L	J	2.380	ug/L	J	1.690	ug/L	-
U-234	125.000	pCi/L	J	214.000	pCi/L	J	350.000	pCi/L	J
U-235/236	5.800	pCi/L	J	15.100	pCi/L	J	13.700	pCi/L	J
U-238	151.000	pCi/L	J	311.000	pCi/L	J	532.000	pCi/L	J
U-TOTAL	375.000	ug/L	J	776.000	ug/L	J	1530.000	ug/L	-

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TABLE C-14
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 3 C 039155		
SAMPLING DATE	07/13/92		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	20.000	pc ⁱ /L	U
GROSS ALPHA	1010.000	pc ⁱ /L	NV
GROSS BETA	212.000	pc ⁱ /L	NV
NP-237	1.000	pc ⁱ /L	C
PU-238	1.000	pc ⁱ /L	C
PU-239/240	1.000	pc ⁱ /L	C
RA-226	1.000	pc ⁱ /L	C
RA-228	3.000	pc ⁱ /L	C
RU-106	150.000	pc ⁱ /L	C
SR-90	5.000	pc ⁱ /L	C
TC-99	30.000	pc ⁱ /L	C
TH-228	1.000	pc ⁱ /L	C
TH-230	1.000	pc ⁱ /L	C
TH-232	1.000	pc ⁱ /L	C
TH-TOTAL	0.500	ug/L	C
U-234	942.000	pc ⁱ /L	C
U-235/236	105.000	pc ⁱ /L	C
U-238	868.000	pc ⁱ /L	C
U-TOTAL	1610.000	ug/L	C

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 1 039151			TRENCH 3 C 039155			TRENCH 2 039160					
SAMPLING DATE	07/07/92			07/13/92			07/15/92					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	0.652	mg/L	D	J	1.630	mg/L	D	J	2.110	mg/L	D	JAC
Antimony	0.030	mg/L	D	UJ	0.030	mg/L	D	UJ	0.030	mg/L	D	UJ
Arsenic	0.004	mg/L	D	UJ	0.003	mg/L	D	UJ	0.018	mg/L	D	UJ
Barium	0.119	mg/L	D	UJ	0.113	mg/L	D	UJ	0.162	mg/L	D	UJ
Beryllium	0.002	mg/L	D	UJ	0.002	mg/L	D	UJ	0.002	mg/L	D	UJ
Cadmium	0.005	mg/L	D	UJ	0.005	mg/L	D	UJ	0.005	mg/L	D	UJ
Calcium	200.000	mg/L	D	UJ	157.000	mg/L	D	UJ	166.000	mg/L	D	UJ
Chromium	0.010	mg/L	D	UJ	0.010	mg/L	D	UJ	0.010	mg/L	D	UJ
Cobalt	0.010	mg/L	D	UJ	0.010	mg/L	D	UJ	0.010	mg/L	D	UJ
Copper	0.010	mg/L	D	UJ	0.014	mg/L	D	UJ	0.010	mg/L	D	UJ
Cyanide	0.002	mg/L	D	UJ	0.002	mg/L	D	UJ	0.002	mg/L	D	UJ
Iron	0.511	mg/L	D	UJ	1.990	mg/L	D	UJ	3.510	mg/L	D	UJ
Lead	0.002	mg/L	D	UJ	0.004	mg/L	D	UJ	0.004	mg/L	D	UJ
Magnesium	87.600	mg/L	D	UJ	66.600	mg/L	D	UJ	66.700	mg/L	D	UJ
Manganese	0.091	mg/L	D	UJ	0.824	mg/L	D	UJ	0.464	mg/L	D	UJ
Mercury	0.000	mg/L	D	UJ	0.000	mg/L	D	UJ	0.000	mg/L	D	UJ
Molybdenum	0.020	mg/L	D	UJ	0.020	mg/L	D	UJ	0.020	mg/L	D	UJ
Nickel	0.057	mg/L	D	UJ	0.032	mg/L	D	UJ	0.020	mg/L	D	UJ
Potassium	1.540	mg/L	D	UJ	1.320	mg/L	D	UJ	2.690	mg/L	D	UJ
Selenium	0.002	mg/L	D	UJ	0.002	mg/L	D	UJ	0.002	mg/L	D	UJ
Silicon	9.880	mg/L	D	UJ	9.900	mg/L	D	UJ	10.900	mg/L	D	UJ
Silver	0.010	mg/L	D	UJ	0.010	mg/L	D	UJ	0.010	mg/L	D	UJ
Sodium	26.900	mg/L	D	UJ	22.400	mg/L	D	UJ	28.600	mg/L	D	UJ
Thallium	0.002	mg/L	D	UJ	0.002	mg/L	D	UJ	0.002	mg/L	D	UJ
Tin	0.200	mg/L	D	UJ	0.200	mg/L	D	UJ	0.200	mg/L	D	UJ
Vanadium	0.010	mg/L	D	UJ	0.010	mg/L	D	UJ	0.010	mg/L	D	UJ
Zinc	0.026	mg/L	D	UJ	0.026	mg/L	D	UJ	0.053	mg/L	D	UJ
<u>Volatile Organics</u>												
1,1,1,2-Tetrachloroethane	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ
1,1,1-Trichloroethane	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ
1,1,2,2-Tetrachloroethane	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ
1,1,2-Trichloroethane	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ
1,1-Dichloroethane	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ
1,1-Dichloroethene	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ
1,2,3-Trichloropropene	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ
1,2-Dibromo-3-chloropropane	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ
1,2-Dibromoethane	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ
1,2-Dichloroethane	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ
1,2-Dichloroethene	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ	1.000	ug/L	D	UJ
1,2-Dichloropropane	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ	5.000	ug/L	D	UJ

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 1 039151				TRENCH 3 C 039155				TRENCH 2 039160			
SAMPLING DATE	07/07/92				07/13/92				07/15/92			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,4-Dioxane	200.000	ug/L	D	R	200.000	ug/L	D	R	47.000	ug/L	D	CCC
2-Butanone	3.000	ug/L	D	J	16.000	ug/L	D	CC	36.000	ug/L	D	CCC
2-Chloro-1,3-butadiene	10.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
2-Hexanone	10.000	ug/L	D	UU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
3-Chloropropene	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
4-Methyl-2-pentanone	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Acetone	14.000	ug/L	D	UUU	10.000	ug/L	D	UJ	13.000	ug/L	D	CCC
Acetonitrile	20.000	ug/L	D	UUU	20.000	ug/L	D	UJ	20.000	ug/L	D	CCC
Acrolein	20.000	ug/L	D	UUU	20.000	ug/L	D	UJ	20.000	ug/L	D	CCC
Acrylonitrile	20.000	ug/L	D	UUU	20.000	ug/L	D	UJ	20.000	ug/L	D	CCC
Benzene	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Bromodichloromethane	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Bromoform	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Bromomethane	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Carbon Tetrachloride	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Carbon disulfide	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Chlorobenzene	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Chloroethane	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Chloroform	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Chloromethane	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Dibromochloromethane	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Dibromomethane	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Dichlorodifluoromethane	200.000	ug/L	D	UUU	200.000	ug/L	D	UJ	200.000	ug/L	D	CCC
Ethyl cyanide	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Ethyl methacrylate	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Ethylbenzene	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	2.000	ug/L	D	CCC
Iodomethane	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Isobutyl alcohol	200.000	ug/L	D	UUU	200.000	ug/L	D	UJ	200.000	ug/L	D	CCC
Methacrylonitrile	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Methyl methacrylate	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Methylene chloride	5.000	ug/L	D	UUU	9.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Pyridine	10.000	ug/L	D	UUU	NA	5.000	ug/L	D	5.000	ug/L	D	CCC
Styrene	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Tetrachloroethene	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Toluene	5.000	ug/L	D	UUU	2.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Trichloroethene	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
Trichlorofluoromethane	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Vinyl Acetate	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Vinyl chloride	10.000	ug/L	D	UUU	10.000	ug/L	D	UJ	10.000	ug/L	D	CCC
Xylenes, Total	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
cis-1,3-Dichloropropene	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC
trans-1,3-Dichloropropene	5.000	ug/L	D	UUU	5.000	ug/L	D	UJ	5.000	ug/L	D	CCC

TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 1 039151			TRENCH 3 C 039155			TRENCH 2 039160					
SAMPLING DATE	07/07/92			07/13/92			07/15/92					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
trans-1,4-Dichloro-2-butene	10.000	ug/L	D	R	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ
<u>Semivolatile Organics</u>												
1,2,4,5-Tetrachlorobenzene	10.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	U
1,2,4-Trichlorobenzene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
1,2-Dichlorobenzene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	UJ
1,3,5-Trinitrobenzene	10.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ
1,3-Dichlorobenzene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
1,3-Dinitrobenzene	20.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	U
1,4-Dichlorobenzene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
1,4-Naphthoquinone	10.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ
1-Naphthylamine	10.000	ug/L	D	U	120.000	ug/L	D	R	120.000	ug/L	D	UJ
2,3,4,6-Tetrachlorophenol	10.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	U
2,4,5-Trichlorophenol	50.000	ug/L	D	U	50.000	ug/L	D	U	50.000	ug/L	D	U
2,4,6-Trichlorophenol	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
2,4-Dichlorophenol	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
2,4-Dimethylphenol	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
2,4-Dinitrophenol	50.000	ug/L	D	U	50.000	ug/L	D	U	50.000	ug/L	D	U
2,4-Dinitrotoluene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
2,6-Dichlorophenol	10.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	U
2,6-Dinitrotoluene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
2-Acetylaminofluorene	20.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	U
2-Chloronaphthalene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
2-Chlorophenol	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
2-Methylnaphthalene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
2-Methylphenol	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
2-Naphthylamine	10.000	ug/L	D	U	170.000	ug/L	D	R	170.000	ug/L	D	U
2-Nitroaniline	50.000	ug/L	D	U	50.000	ug/L	D	U	50.000	ug/L	D	U
2-Nitrophenol	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
2-Picoline	NA				70.000	ug/L	D	UJ	70.000	ug/L	D	U
3,3'-Dichlorobenzidine	20.000	ug/L	D	U	20.000	ug/L	D	U	20.000	ug/L	D	U
3,3'-Dimethylbenzidine	10.000	ug/L	D	U	80.000	ug/L	D	R	80.000	ug/L	D	U
3-Methylcholanthrene	10.000	ug/L	D	U	30.000	ug/L	D	UJ	30.000	ug/L	D	U
3-Methylphenol	NA				10.000	ug/L	D	R	10.000	ug/L	D	U
3-Nitroaniline	50.000	ug/L	D	U	50.000	ug/L	D	U	50.000	ug/L	D	U
4,6-Dinitro-2-methylphenol	50.000	ug/L	D	U	50.000	ug/L	D	U	50.000	ug/L	D	U
4-Aminobiphenyl	20.000	ug/L	D	U	50.000	ug/L	D	UJ	50.000	ug/L	D	U
4-Bromophenyl phenyl ether	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
4-Chloro-3-methylphenol	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
4-Chlorophenylphenyl ether	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
4-Methylphenol	2.000	ug/L	D	J	10.000	ug/L	D	U	10.000	ug/L	D	U

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 1 039151	TRENCH 3 C 039155				TRENCH 2 039160						
SAMPLING DATE	07/07/92	07/13/92				07/15/92						
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
4-Nitroaniline	50.000	ug/L	D	U	50.000	ug/L	D	U	50.000	ug/L	D	U
4-Nitrophenol	50.000	ug/L	D	U	50.000	ug/L	D	U	50.000	ug/L	D	U
4-Nitroquinoline-1-oxide	40.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
5-Nitro-o-toluidine	10.000	ug/L	D	U	20.000	ug/L	D	U	20.000	ug/L	D	U
7,12-Dimethylbenz(a)anthracene	10.000	ug/L	D	U	20.000	ug/L	D	U	20.000	ug/L	D	U
Acenaphthene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Acenaphthylene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Acetophenone	20.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Aniline	NA				50.000	ug/L	D	U	50.000	ug/L	D	U
Anthracene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Aramite	2.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Benzo(a)anthracene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Benzo(a)pyrene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Benzo(b)fluoranthene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Benzo(g,h,i)perylene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Benzo(k)fluoranthene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Benzoic acid	50.000	ug/L	D	U	4.000	ug/L	D	U	50.000	ug/L	D	U
Benzyl alcohol	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Butyl benzyl phthalate	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Carbazole	10.000	ug/L	D	U	NA				NA			
Chrysene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Di-n-butyl phthalate	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Di-n-octyl phthalate	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Diallate	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Dibenz(o,h)anthracene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Dibenzofuran	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Diethyl phthalate	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Dimethyl phthalate	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Diphenylamine	20.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Ethyl methanesulfonate	20.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Fluoranthene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Fluorene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Hexachlorobenzene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Hexachlorobutadiene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Hexachlorocyclopentadiene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Hexachloroethane	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Hexachlorophene	1000.000	ug/L	D	U	50.000	ug/L	D	U	50.000	ug/L	D	U
Hexachloropropene	10.000	ug/L	D	U	20.000	ug/L	R	U	20.000	ug/L	D	U
Indeno(1,2,3-cd)pyrene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Isophorone	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Isosafrole	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U
Methapyrilene	100.000	ug/L	D	U	40.000	ug/L	D	U	40.000	ug/L	D	U

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 1 039151				TRENCH 3 C 039155				TRENCH 2 039160				
SAMPLING DATE	07/07/92				07/13/92				07/15/92				
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	
<u>Semivolatile Organics</u>													
Methyl methanesulfonate	NA				10.000	ug/L	D	UJ	NA	10.000	ug/L	D	UJ
Methyl parathion	10.000	ug/L	D	UJ	10.000	ug/L	D	U	10.000	ug/L	D	U	
N-Nitroso-di-n-propylamine	10.000	ug/L	D	U	20.000	ug/L	D	UJ	20.000	ug/L	D	UJ	
N-Nitrosodi-n-butylamine	10.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	
N-Nitrosodiethylamine	20.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	
N-Nitrosodimethylamine	NA				10.000	ug/L	D	R	10.000	ug/L	D	U	
N-Nitrosodiphenylamine	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
N-Nitrosomethylalkylamine	NA				10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	
N-Nitrosomorpholine	100.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	
N-Nitrosopiperidine	20.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	
N-Nitrosopyrrolidine	40.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	
Naphthalene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
Nitrobenzene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
O,O,O-Triethylphosphorothioate	100.000	ug/L	D	U	10.000	ug/L	D	R	10.000	ug/L	D	UJ	
Parathion	10.000	ug/L	D	U	NA				NA				
Pentachlorobenzene	10.000	ug/L	D	U	20.000	ug/L	D	UJ	20.000	ug/L	D	U	
Pentachloroethane	100.000	ug/L	D	U	20.000	ug/L	D	UJ	20.000	ug/L	D	U	
Pentachloronitrobenzene	20.000	ug/L	D	U	20.000	ug/L	D	R	20.000	ug/L	D	UJ	
Pentachlorophenol	50.000	ug/L	D	U	50.000	ug/L	D	R	50.000	ug/L	D	UJ	
Phenacetin	20.000	ug/L	D	U	10.000	ug/L	D	R	10.000	ug/L	D	U	
Phenanthrone	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
Phenol	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
Pronamide	10.000	ug/L	D	U	30.000	ug/L	D	UJ	30.000	ug/L	D	U	
Pyrene	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
Safrole	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
Sulfotep	40.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	UJ	
a,a-Dimethylphenethylamine	100.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
bis(2-Chloroethoxy)methane	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
bis(2-Chloroethyl)ether	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
bis(2-Chloroisopropyl) ether	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
bis(2-Ethylhexyl) phthalate	10.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	U	
o-Toluidine	10.000	ug/L	D	U	10.000	ug/L	D	UJ	10.000	ug/L	D	UJ	
p-Chloroaniline	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
p-Dimethylaminocazobenzene	10.000	ug/L	D	U	30.000	ug/L	D	R	30.000	ug/L	D	U	
p-Phenylenediamine	20.000	ug/L	D	U	50.000	ug/L	D	R	50.000	ug/L	D	UJ	
<u>Herbicide Organics</u>													
2,4,5-T	2.000	ug/L	D	U	2.000	ug/L	D	U	2.000	ug/L	D	U	
2,4,5-TP (Silvex)	1.800	ug/L	D	U	1.800	ug/L	D	U	1.800	ug/L	D	U	
2,4-D	10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	D	U	
Dinoseb	20.000	ug/L	D	U	20.000	ug/L	D	UJ	0.700	ug/L	D	U	

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(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 1 039151	TRENCH 3 C 039155				TRENCH 2 039160						
SAMPLING DATE	07/07/92	07/13/92				07/15/92						
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	0.100	ug/L	D	U	0.100	ug/L	D	U	0.100	ug/L	D	U
4,4'-DDE	0.100	ug/L	D	U	0.100	ug/L	D	U	0.100	ug/L	D	U
4,4'-DDT	0.100	ug/L	D	U	0.100	ug/L	D	U	0.100	ug/L	D	U
Aldrin	0.050	ug/L	D	U	0.050	ug/L	D	U	0.050	ug/L	D	U
Aroclor-1016	0.500	ug/L	D	U	0.500	ug/L	D	U	0.500	ug/L	D	U
Aroclor-1221	0.500	ug/L	D	U	0.500	ug/L	D	U	0.500	ug/L	D	U
Aroclor-1232	0.500	ug/L	D	U	0.500	ug/L	D	U	0.500	ug/L	D	U
Aroclor-1242	0.500	ug/L	D	U	0.500	ug/L	D	U	1.700	ug/L	D	U
Aroclor-1248	0.500	ug/L	D	U	0.500	ug/L	D	U	0.500	ug/L	D	U
Aroclor-1254	1.000	ug/L	D	U	1.000	ug/L	D	U	1.000	ug/L	D	U
Aroclor-1260	1.000	ug/L	D	U	1.000	ug/L	D	U	1.000	ug/L	D	U
Chlorobenzilate	0.100	ug/L	D	U	0.100	ug/L	D	U	0.100	ug/L	D	U
Dieldrin	0.100	ug/L	D	U	0.100	ug/L	D	U	0.100	ug/L	D	U
Dimethoate	20.000	ug/L	D	U	NA				NA			
Disulfoton	10.000	ug/L	D	U	NA				NA			
Endosulfan II	0.100	ug/L	D	U	0.100	ug/L	D	U	0.100	ug/L	D	U
Endosulfan sulfate	0.100	ug/L	D	U	0.100	ug/L	D	U	0.100	ug/L	D	U
Endosulfan-I	0.050	ug/L	D	U	0.050	ug/L	D	U	0.050	ug/L	D	U
Endrin	0.100	ug/L	D	U	0.100	ug/L	D	U	0.100	ug/L	D	U
Endrin ketone	0.100	ug/L	D	U	0.100	ug/L	D	U	0.100	ug/L	D	U
Famphur	200.000	ug/L	D	R	NA				NA			
Heptachlor	0.050	ug/L	D	U	0.050	ug/L	D	U	0.050	ug/L	D	U
Heptachlor epoxide	0.050	ug/L	D	U	0.050	ug/L	D	U	0.050	ug/L	D	U
Isodrin	0.050	ug/L	D	U	0.050	ug/L	D	U	0.050	ug/L	D	U
Kepone	0.100	ug/L	D	U	0.100	ug/L	D	U	0.100	ug/L	D	U
Methoxychlor	0.500	ug/L	D	U	0.500	ug/L	D	U	0.500	ug/L	D	U
Phorate	10.000	ug/L	D	U	NA				NA			
Thionazin	20.000	ug/L	D	U	NA				NA			
Toxaphene	1.000	ug/L	D	U	1.000	ug/L	D	U	1.000	ug/L	D	U
alpha-BHC	0.050	ug/L	D	U	0.050	ug/L	D	U	0.050	ug/L	D	U
alpha-Chlordane	0.500	ug/L	D	U	0.500	ug/L	D	U	0.500	ug/L	D	U
beta-BHC	0.050	ug/L	D	U	0.050	ug/L	D	U	0.050	ug/L	D	U
delta-BHC	0.050	ug/L	D	U	0.050	ug/L	D	U	0.050	ug/L	D	U
gamma-BHC (Lindane)	0.050	ug/L	D	U	0.050	ug/L	D	U	0.050	ug/L	D	U
gamma-Chlordane	0.500	ug/L	D	U	0.500	ug/L	D	U	0.500	ug/L	D	U
<u>Dioxin/Furan</u>												
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.000	ug/L	E	U	0.000	ug/L	E	U	0.001	ug/L	E	U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.001	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	U
1,2,3,4,7,8,9-Heptachlorodibenzo-furan	0.001	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	U

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 1 039151				TRENCH 3 C 039155				TRENCH 2 039160			
SAMPLING DATE	07/07/92				07/13/92				07/15/92			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Dioxin Furan</u>												
1,2,3,4,7,8-Hexachlorodibenzofuran	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
1,2,3,6,7,8-Hexachlorodibenzofuran	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
1,2,3,7,8,9-Hexachlorodibenzofuran	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
1,2,3,7,8-Pentachlorodibenzofuran	0.000	ug/L	E	U	0.001	ug/L	E	U	0.001	ug/L	E	UJ
1,2,3,7,8-Pentachlorodibenzofuran	0.000	ug/L	E	U	0.000	ug/L	E	U	0.001	ug/L	E	UJ
2,3,4,6,7,8-Hexachlorodibenzofuran	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
2,3,4,7,8-Pentachlorodibenzofuran	0.000	ug/L	E	U	0.000	ug/L	E	U	0.001	ug/L	E	UJ
2,3,7,8-TCDD	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
2,3,7,8-TCDF	0.000	ug/L	E	U	0.000	ug/L	E	U	0.001	ug/L	E	UJ
Heptachlorodibenzo-p-dioxin	0.000	ug/L	E	U	0.000	ug/L	E	U	0.001	ug/L	E	UJ
Heptachlorodibenzofuran	0.001	ug/L	E	U	0.000	ug/L	E	U	0.001	ug/L	E	UJ
Hexachlorodibenzo-p-dioxin	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
Hexachlorodibenzofuran	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
Octachlorodibenzo-p-dioxin	0.000	ug/L	E	U	0.000	ug/L	E	U	0.001	ug/L	E	UJ
Octachlorodibenzofuran	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
Pentachlorodibenzo-p-dioxin	0.000	ug/L	E	U	0.001	ug/L	E	U	0.001	ug/L	E	UJ
Pentachlorodibenzofuran	0.000	ug/L	E	U	0.000	ug/L	E	U	0.001	ug/L	E	UJ
Tetrachlorodibenzo-p-dioxin	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
Tetrachlorodibenzofuran	0.000	ug/L	E	U	0.000	ug/L	E	U	0.000	ug/L	E	UJ
<u>General Chemistry</u>												
Ammonia	0.360	mg/L	C	-	0.460	mg/L	C	-	1.320	mg/L	C	-
Chloride	53.300	mg/L	C	-	19.600	mg/L	C	-	41.300	mg/L	C	-
Fluoride	0.480	mg/L	C	-	0.385	mg/L	C	-	0.590	mg/L	C	-
Nitrate	NA				0.100	mg/L	C	-	NA			
Nitrate/nitrite	0.100	mg/L	C	U	NA				0.100	mg/L	C	U
Phenols	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Phosphorus	1.743	mg/L	C	-	2.505	mg/L	C	-	0.355	mg/L	C	-
Sulfate	122.200	mg/L	C	-	57.600	mg/L	C	-	25.600	mg/L	C	-
Sulfide	0.500	mg/L	C	U	0.500	mg/L	C	U	0.500	mg/L	C	U
Total Organic Carbon	10.200	mg/L	C	-	7.190	mg/L	C	-	14.500	mg/L	C	-
Total Organic Halides	0.269	mg/L	C	-	0.204	mg/L	C	-	0.215	mg/L	C	-
Total Organic Nitrogen	1.030	mg/L	C	-	1.080	mg/L	C	-	0.500	mg/L	C	-

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 2 039163	TRENCH 2 039165		
SAMPLING DATE	07/16/92	07/16/92		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Inorganics</u>				
Aluminum	2.190	mg/L D	-	NA
Antimony	0.030	mg/L D	R	NA
Arsenic	0.017	mg/L D	U	NA
Barium	0.186	mg/L D	U	NA
Beryllium	0.002	mg/L D	U	NA
Cadmium	0.005	mg/L D	U	NA
Calcium	159.000	mg/L D	U	NA
Chromium	0.010	mg/L D	U	NA
Cobalt	0.010	mg/L D	U	NA
Copper	0.010	mg/L D	U	NA
Cyanide	0.020	mg/L D	U	NA
Iron	4.490	mg/L D	U	NA
Lead	0.020	mg/L D	U	NA
Magnesium	87.700	mg/L D	U	NA
Manganese	0.917	mg/L D	U	NA
Mercury	0.000	mg/L D	U	NA
Molybdenum	0.020	mg/L D	U	NA
Nickel	0.020	mg/L D	U	NA
Potassium	7.550	mg/L D	U	NA
Selenium	0.002	mg/L D	U	NA
Silicon	22.100	mg/L D	U	NA
Silver	0.010	mg/L D	U	NA
Sodium	95.700	mg/L D	U	NA
Thallium	0.002	mg/L D	U	NA
Tin	0.200	mg/L D	U	NA
Vanadium	0.010	mg/L D	U	NA
Zinc	0.154	mg/L D	U	NA
<u>Volatile Organics</u>				
1,1,1,2-Tetrachloroethane	10.000	ug/L D	U	NA
1,1,1-Trichloroethane	5.000	ug/L D	U	NA
1,1,2,2-Tetrachloroethane	5.000	ug/L D	U	NA
1,1,2-Trichloroethane	5.000	ug/L D	U	NA
1,1-Dichloroethane	5.000	ug/L D	U	NA
1,1-Dichloroethene	5.000	ug/L D	U	NA
1,2,2,3-Trichloropropane	10.000	ug/L D	U	NA
1,2-Dibromo-3-chloropropane	10.000	ug/L D	U	NA
1,2-Dibromoethane	10.000	ug/L D	U	NA
1,2-Dichloroethane	5.000	ug/L D	U	NA
1,2-Dichloroethene	2.000	ug/L D	U	NA
1,2-Dichloropropene	5.000	ug/L D	U	NA

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 2 039163	RESULTS	UNITS	L	VQ	TRENCH 2 039165	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>										
1,4-Dioxane	200.000	ug/L	D	R		NA				
2-Butanone	10.000	ug/L	D	U		NA				
2-Chloro-1,3-butadiene	10.000	ug/L	D	UU		NA				
2-Hexanone	10.000	ug/L	D	UU		NA				
3-Chloropropene	10.000	ug/L	D	U		NA				
4-Methyl-2-pentanone	10.000	ug/L	D	UU		NA				
Acetone	25.000	ug/L	D	-		NA				
Acetonitrile	20.000	ug/L	D	UU		NA				
Acrolein	20.000	ug/L	D	U		NA				
Acrylonitrile	20.000	ug/L	D	UU		NA				
Benzene	5.000	ug/L	D	-		NA				
Bromodichloromethane	5.000	ug/L	D	UU		NA				
Bromoform	5.000	ug/L	D	UUU		NA				
Bromomethane	10.000	ug/L	D	UUU		NA				
Carbon Tetrachloride	5.000	ug/L	D	UUU		NA				
Carbon disulfide	5.000	ug/L	D	UUU		NA				
Chlorobenzene	5.000	ug/L	D	UUU		NA				
Chloroethane	10.000	ug/L	D	UUU		NA				
Chloroform	5.000	ug/L	D	UUU		NA				
Chloromethane	10.000	ug/L	D	UUU		NA				
Dibromochloromethane	5.000	ug/L	D	UUU		NA				
Dibromomethane	10.000	ug/L	D	UUU		NA				
Dichlorodifluoromethane	200.000	ug/L	D	R		NA				
Ethyl cyanide	10.000	ug/L	D	U		NA				
Ethyl methacrylate	10.000	ug/L	D	UU		NA				
Ethylbenzene	1.000	ug/L	D	UUU		NA				
Iodomethane	10.000	ug/L	D	UUU		NA				
Isobutyl alcohol	200.000	ug/L	D	UUU		NA				
Methacrylonitrile	10.000	ug/L	D	UUU		NA				
Methyl methacrylate	10.000	ug/L	D	UUU		NA				
Methylene chloride	5.000	ug/L	D	UUU		NA				
Styrene	5.000	ug/L	D	UUU		NA				
Tetrachloroethene	5.000	ug/L	D	UUU		NA				
Toluene	57.000	ug/L	D	-		NA				
Trichloroethene	5.000	ug/L	D	UU		NA				
Trichlorofluoromethane	18.000	ug/L	D	UU		NA				
Vinyl Acetate	10.000	ug/L	D	UU		NA				
Vinyl chloride	10.000	ug/L	D	UU		NA				
Xylenes, Total	5.000	ug/L	D	UU		NA				
cis-1,3-Dichloropropene	5.000	ug/L	D	UU		NA				
trans-1,3-Dichloropropene	5.000	ug/L	D	UU		NA				
trans-1,4-Dichloro-2-butene	10.000	ug/L	D	R		NA				

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February 18, 1994

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(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 2 039163				TRENCH 2 039165			
SAMPLING DATE	07/16/92				07/16/92			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>								
1,2,4,5-Tetrachlorobenzene	10.000	ug/L	D	UJ				NA
1,2,4-Trichlorobenzene	10.000	ug/L	D	UJ				NA
1,2-Dichlorobenzene	10.000	ug/L	D	UJ				NA
1,3,5-Trinitrobenzene	10.000	ug/L	D	UJ				NA
1,3-Dichlorobenzene	10.000	ug/L	D	UJ				NA
1,3-Dinitrobenzene	10.000	ug/L	D	UJ				NA
1,4-Dichlorobenzene	10.000	ug/L	D	UJ				NA
1,4-Naphthoquinone	10.000	ug/L	D	UJ				NA
1-Naphthylamine	120.000	ug/L	D	UJ				NA
2,3,4,6-Tetrachlorophenol	10.000	ug/L	D	UJ				NA
2,4,5-Trichlorophenol	50.000	ug/L	D	UJ				NA
2,4,6-Trichlorophenol	10.000	ug/L	D	UJ				NA
2,4-Dichlorophenol	10.000	ug/L	D	UJ				NA
2,4-Dimethylphenol	140.000	ug/L	D	UJ				NA
2,4-Dinitrophenol	50.000	ug/L	D	UJ				NA
2,4-Dinitrotoluene	10.000	ug/L	D	UJ				NA
2,6-Dichlorophenol	10.000	ug/L	D	UJ				NA
2,6-Dinitrotoluene	10.000	ug/L	D	UJ				NA
2-Acetylaminofluorene	10.000	ug/L	D	UJ				NA
2-Chloronaphthalene	10.000	ug/L	D	UJ				NA
2-Chlorophenol	10.000	ug/L	D	UJ				NA
2-Methylnaphthalene	70.000	ug/L	D	UJ				NA
2-Methylphenol	48.000	ug/L	D	UJ				NA
2-Naphthylamine	170.000	ug/L	D	UJ				NA
2-Nitroaniline	50.000	ug/L	D	UJ				NA
2-Nitrophenol	10.000	ug/L	D	UJ				NA
2-Picoline	70.000	ug/L	D	UJ				NA
3,3'-Dichlorobenzidine	20.000	ug/L	D	UJ				NA
3,3'-Dimethylbenzidine	80.000	ug/L	D	UJ				NA
3-Methylcholanthrene	30.000	ug/L	D	UJ				NA
3-Methylphenol	10.000	ug/L	D	UJ				NA
3-Nitroaniline	50.000	ug/L	D	UJ				NA
4,6-Dinitro-2-methylphenol	50.000	ug/L	D	UJ				NA
4-Aminobiphenyl	50.000	ug/L	D	UJ				NA
4-Bromophenyl phenyl ether	10.000	ug/L	D	UJ				NA
4-Chloro-3-methylphenol	4.000	ug/L	D	UJ				NA
4-Chlorophenylphenyl ether	10.000	ug/L	D	UJ				NA
4-Methylphenol	290.000	ug/L	D	UJ				NA
4-Nitroaniline	50.000	ug/L	D	UJ				NA
4-Nitrophenol	50.000	ug/L	D	UJ				NA
4-Nitroquinoline-1-oxide	10.000	ug/L	D	UJ				NA
5-Nitro-o-toluidine	20.000	ug/L	D	UJ				NA

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 2 039163	TRENCH 2 039165
SAMPLING DATE	07/16/92	07/16/92
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>		
7,12-Dimethylbenz(a)anthracene	20.000 ug/L D UJ	NA
Acenaphthene	89.000 ug/L D J	NA
Acenaphthylene	10.000 ug/L D UJ	NA
Acetophenone	10.000 ug/L D UJ	NA
Aniline	50.000 ug/L D UJ	NA
Anthracene	25.000 ug/L D UJ	NA
Aramite	10.000 ug/L D R	NA
Benz(a)anthracene	10.000 ug/L D UJ	NA
Benz(a)pyrene	10.000 ug/L D UJ	NA
Benz(b)fluoranthene	10.000 ug/L D UJ	NA
Benz(g,h,i)perylene	10.000 ug/L D UJ	NA
Benz(k)fluoranthene	10.000 ug/L D UJ	NA
Benzoic acid	290.000 ug/L D UJ	NA
Benzyl alcohol	10.000 ug/L D UJ	NA
Butyl benzyl phthalate	10.000 ug/L D UJ	NA
Chrysene	10.000 ug/L D UJ	NA
Di-n-butyl phthalate	10.000 ug/L D UJ	NA
Diallate	10.000 ug/L D UJ	NA
Dibenzo(a,h)anthracene	10.000 ug/L D UJ	NA
Dibenzofuran	59.000 ug/L D UJ	NA
Diethyl phthalate	10.000 ug/L D UJ	NA
Dimethyl phthalate	10.000 ug/L D UJ	NA
Diphenylamine	10.000 ug/L D UJ	NA
Ethyl methanesulfonate	10.000 ug/L D UJ	NA
Fluoranthene	17.000 ug/L D UJ	NA
Fluorene	68.000 ug/L D UJ	NA
Hexachlorobenzene	10.000 ug/L D UJ	NA
Hexachlorobutadiene	10.000 ug/L D UJ	NA
Hexachlorocyclopentadiene	10.000 ug/L D UJ	NA
Hexachloroethane	10.000 ug/L D UJ	NA
Hexachlorophene	50.000 ug/L D UJ	NA
Hexachloropropene	20.000 ug/L D UJ	NA
Indeno(1,2,3-cd)pyrene	10.000 ug/L D UJ	NA
Isophorone	10.000 ug/L D UJ	NA
Isosafrole	10.000 ug/L D UJ	NA
Methapyrilene	40.000 ug/L D UJ	NA
Methyl methanesulfonate	10.000 ug/L D UJ	NA
Methyl parathion	NA	0.100 ug/L D U
N-Nitroso-di-n-propylamine	10.000 ug/L D UJ	NA
N-Nitrosodi-n-butylamine	20.000 ug/L D UJ	NA
N-Nitrosodioethylamine	10.000 ug/L D UJ	NA

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	TRENCH 2 039163				TRENCH 2 039165			
SAMPLE NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
CHEMICAL PARAMETERS								
<u>Semivolatile Organics</u>								
N-Nitrosodimethylamine	10.000	ug/L	D	UJ				NA
N-Nitrosodiphenylamine	10.000	ug/L	D	UJ				NA
N-Nitrosomethylamine	10.000	ug/L	D	UJ				NA
N-Nitrosomorpholine	10.000	ug/L	D	UJ				NA
N-Nitrosopiperidine	10.000	ug/L	D	UJ				NA
N-Nitrosopyrrolidine	10.000	ug/L	D	UJ				NA
Naphthalene	350.000	ug/L	D	-				NA
Nitrobenzene	10.000	ug/L	D	UJ				NA
O,O,O-Triethylphosphorothioate	10.000	ug/L	D	U				NA
Parathion	NA				0.100	ug/L	D	U
Pentachlorobenzene	20.000	ug/L	D	UJ				NA
Pentachloroethane	20.000	ug/L	D	UJ				NA
Pentachloronitrobenzene	20.000	ug/L	D	R				NA
Pentachlorophenol	50.000	ug/L	D	UJ				NA
Phenacetin	10.000	ug/L	D	UJ				NA
Phenanthrene	89.000	ug/L	D	J				NA
Phenol	37.000	ug/L	D	-				NA
Pronamide	30.000	ug/L	D	UJ				NA
Pyrene	11.000	ug/L	D	J				NA
Safrole	10.000	ug/L	D	UJ				NA
Sulfotep	10.000	ug/L	D	NV				NA
a,a-Dimethylphenethylamine	10.000	ug/L	D	UJ				NA
bis(2-Chloroethoxy)methane	10.000	ug/L	D	UJ				NA
bis(2-Chloroethyl)ether	10.000	ug/L	D	UJ				NA
bis(2-Chloroisopropyl) ether	10.000	ug/L	D	UJ				NA
bis(2-Ethylhexyl) phthalate	10.000	ug/L	D	UJ				NA
o-Tolidine	10.000	ug/L	D	UJ				NA
p-Chloroaniline	10.000	ug/L	D	UJ				NA
p-Dimethylaminobenzene	30.000	ug/L	D	UJ				NA
p-Phenylenediamine	50.000	ug/L	D	R				NA
<u>Herbicide Organics</u>								
2,4,5-T	2.000	ug/L	D	U				NA
2,4,5-TP (Silvex)	1.800	ug/L	D	U				NA
2,4-D	10.000	ug/L	D	U				NA
Dinoseb	20.000	ug/L	D	UJ				NA
<u>Pesticide Organics/PCBs</u>								
4,4'-DDD	0.200	ug/L	D	U				NA
4,4'-DDE	0.200	ug/L	D	U				NA

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 2 039163	TRENCH 2 039165
SAMPLING DATE	07/16/92	07/16/92
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>		
4,4'-DDT	0.200 ug/L D U	NA
Aldrin	0.100 ug/L D U	NA
Aroclor-1016	1.000 ug/L D U	NA
Aroclor-1221	1.000 ug/L D U	NA
Aroclor-1232	1.000 ug/L D U	NA
Aroclor-1242	1.000 ug/L D U	NA
Aroclor-1248	1.000 ug/L D U	NA
Aroclor-1254	2.000 ug/L D U	NA
Aroclor-1260	2.000 ug/L D U	NA
Azinphosmethyl	NA	0.500 ug/L D U
Chlorobenzilate	0.200 ug/L D U	NA
Demeton	NA	0.100 ug/L D U
Diazinon	NA	34.600 ug/L D -
Dieledrin	0.200 ug/L D U	NA
Disulfoton	NA	4.400 ug/L D -
Endosulfan II	0.200 ug/L D U	NA
Endosulfan sulfate	0.200 ug/L D U	NA
Endosulfan-I	0.100 ug/L D U	NA
Endrin	0.200 ug/L D U	NA
Endrin ketone	0.200 ug/L D U	NA
Ethion	NA	0.100 ug/L D U
Heptachlor	0.100 ug/L D U	NA
Heptachlor epoxide	0.100 ug/L D U	NA
Isodrin	0.100 ug/L D U	NA
Kepone	0.200 ug/L D U	NA
Malathion	NA	0.100 ug/L D U
Methoxychlor	1.000 ug/L D U	NA
Tetraethylpyrophosphate	NA	0.100 ug/L D U
Toxaphene	2.000 ug/L D U	NA
alpha-BHC	0.100 ug/L D U	NA
alpha-Chlordane	1.000 ug/L D U	NA
beta-BHC	0.100 ug/L D U	NA
delta-BHC	0.100 ug/L D U	NA
gamma-BHC (Lindane)	0.100 ug/L D U	NA
gamma-Chlordane	1.000 ug/L D U	NA
<u>Dioxin/Furan</u>		
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.001 ug/L E U	NA
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.000 ug/L E U	NA
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.001 ug/L E U	NA
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.000 ug/L E U	NA

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TABLE C-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	TRENCH 2 039163				TRENCH 2 039165			
SAMPLING DATE	07/16/92				07/16/92			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Dioxin/Furan</u>								
1,2,3,4,7,8-Hexachlorodibenzofuran	0.000	ug/L	E	U				NA
1,2,3,6,7,8-Hexachlorodibenz-p-dioxin	0.000	ug/L	E	U				NA
1,2,3,6,7,8-Hexachlorodibenzofuran	0.000	ug/L	E	U				NA
1,2,3,7,8,9-Hexachlorodibenz-p-dioxin	0.000	ug/L	E	U				NA
1,2,3,7,8,9-Hexachlorodibenzofuran	0.000	ug/L	E	U				NA
1,2,3,7,8-Pentachlorodibenz-p-dioxin	0.001	ug/L	E	U				NA
1,2,3,7,8-Pentachlorodibenzofuran	0.001	ug/L	E	U				NA
2,3,4,6,7,8-Hexachlorodibenzofuran	0.000	ug/L	E	U				NA
2,3,4,7,8-Pentachlorodibenzofuran	0.000	ug/L	E	U				NA
2,3,7,8-TCDD	0.000	ug/L	E	U				NA
2,3,7,8-TCDF	0.000	ug/L	E	U				NA
Heptachlorodibenz-p-dioxin	0.001	ug/L	E	U				NA
Heptachlorodibenzofuran	0.003	ug/L	E	U				NA
Hexachlorodibenz-p-dioxin	0.000	ug/L	E	U				NA
Hexachlorodibenzofuran	0.000	ug/L	E	U				NA
Octachlorodibenz-p-dioxin	0.002	ug/L	E	U				NA
Octachlorodibenzofuran	0.001	ug/L	E	U				NA
Pentachlorodibenz-p-dioxin	0.001	ug/L	E	U				NA
Pentachlorodibenzofuran	0.000	ug/L	E	U				NA
Tetrachlorodibenz-p-dioxin	0.000	ug/L	E	U				NA
Tetrachlorodibenzofuran	0.001	ug/L	E	U				NA
<u>General Chemistry</u>								
Ammonia	1.200	mg/L	C	-				NA
Chloride	17.600	mg/L	C	-				NA
Fluoride	1.900	mg/L	C	-				NA
Nitrate/nitrite	0.100	mg/L	C	U				NA
Phenols	0.558	mg/L	C	-				NA
Phosphorus	0.342	mg/L	C	-				NA
Sulfate	23.460	mg/L	C	-				NA
Sulfide	0.500	mg/L	C	U				NA
Total Organic Carbon	75.950	mg/L	C	-				NA
Total Organic Halides	0.195	mg/L	C	-				NA
Total Organic Nitrogen	2.400	mg/L	C	-				NA

C-14-16

TABLE C-15
SOLID WASTE LANDFILL
RI/FS TCLP RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	1808		1808			
SAMPLE NUMBER	067397		067402			
SAMPLING DATE	9 - 10.5 08/27/91		0 - 12.75 08/27/91			
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	
CS-137	22.000	pCi/L	DJ	20.000	pCi/L	UJ
NP-237	1.000	pCi/L	UJ	1.000	pCi/L	UJ
PU-238	1.000	pCi/L	U	1.000	pCi/L	U
PU-239/240	1.000	pCi/L	U	1.000	pCi/L	U
RA-226	1.000	pCi/L	U	1.000	pCi/L	U
RA-228	3.000	pCi/L	UJ	3.000	pCi/L	UJ
RU-106	150.000	pCi/L	UJ	150.000	pCi/L	UJ
SR-90	5.000	pCi/L	R	5.000	pCi/L	R
TC-99	30.000	pCi/L	UJ	30.000	pCi/L	R
TH-228	1.000	pCi/L	UJ	1.000	pCi/L	UJ
TH-230	1.000	pCi/L	UJ	1.000	pCi/L	UJ
TH-232	1.000	pCi/L	U	1.000	pCi/L	U
TH-TOTAL	2.100	ug/L	U	4.000	ug/L	URR
U-234	8.740	pCi/L	R	24.200	pCi/L	RR
U-235/236	1.000	pCi/L	R	3.230	pCi/L	JR
U-238	12.600	pCi/L	J	41.500	pCi/L	J
U-TOTAL	35.200	ug/L	R	113.000	ug/L	R

C-15-1

0404

TABLE C-15
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1719				1720				1720			
SAMPLE NUMBER	067301				067318				067309			
SAMPLING DATE	08/08/91				08/10/91				6-7.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Arsenic	0.100	mg/L	C	U	0.250	mg/L	C	U	NA	ug/L	C	U
Barium	0.974	mg/L	C	U	1.070	mg/L	C	U	NA	ug/L	C	U
Cadmium	0.006	mg/L	C	U	0.011	mg/L	C	U	NA	ug/L	C	U
Chromium	0.082	mg/L	C	U	0.093	mg/L	C	U	NA	ug/L	C	U
Lead	0.069	mg/L	C	U	0.090	mg/L	C	U	NA	ug/L	C	U
Mercury	0.000	mg/L	C	U	0.000	mg/L	C	U	NA	ug/L	C	U
Selenium	0.149	mg/L	C	U	0.137	mg/L	C	U	NA	ug/L	C	U
Silver	0.073	mg/L	C	U	0.081	mg/L	C	U	NA	ug/L	C	U
<u>Volatile Organics</u>												
1,1-Dichloroethene	NA				NA				5.000	ug/L	C	U
1,2-Dichloroethane	NA				NA				5.000	ug/L	C	U
2-Butanone	NA				NA				4.000	ug/L	C	U
Benzene	NA				NA				5.000	ug/L	C	U
Carbon Tetrachloride	NA				NA				5.000	ug/L	C	U
Chlorobenzene	NA				NA				5.000	ug/L	C	U
Chloroform	NA				NA				5.000	ug/L	C	U
Pyridine	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	C	U
Tetrachloroethylene	NA				NA				5.000	ug/L	C	U
Trichloroethylene	NA				NA				5.000	ug/L	C	U
Vinyl chloride	NA				NA				10.000	ug/L	C	U
<u>Semivolatile Organics</u>												
1,4-Dichlorobenzene	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	C	U
2,4,5-Trichlorophenol	100.000	ug/L	C	U	100.000	ug/L	C	U	100.000	ug/L	C	U
2,4,6-Trichlorophenol	20.000	ug/L	C	U	20.000	ug/L	C	U	204.000	ug/L	C	U
2,4-Dinitrotoluene	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	C	U
2-Methylphenol	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	C	U
3-Methylphenol	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	C	U
4-Methylphenol	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	C	U
Hexachlorobenzene	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	C	U
Hexachlorobutadiene	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	C	U
Hexachloroethane	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	C	U
Nitrobenzene	20.000	ug/L	C	U	20.000	ug/L	C	U	20.000	ug/L	C	U
Pentachlorophenol	100.000	ug/L	C	U	100.000	ug/L	C	U	100.000	ug/L	C	U
<u>Herbicide Organics</u>												
2,4,5-TP (Silvex)	1.800	ug/L	C	U	1.800	ug/L	C	U	1.800	ug/L	C	U
2,4-D	10.000	ug/L	C	U	10.000	ug/L	C	U	10.000	ug/L	C	U

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0405

TABLE C-15
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1719	1720	1720
SAMPLE NUMBER	067301	067318	067309
SAMPLING DATE	08/08/91	08/10/91	6-7.5 08/10/91
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Pesticide Organics/PCBs</u>			
Chlordane	NA		
Endrin	0.100	ug/L	C U
Heptachlor	0.050	ug/L	C UU
Heptachlor epoxide	0.050	ug/L	C UU
Methoxychlor	0.500	ug/L	C UU
Toxaphene	1.000	ug/L	C UU
alpha-Chlordane	0.500	ug/L	C UU
gamma-BHC (Lindane)	0.050	ug/L	C UU
gamma-Chlordane	0.500	ug/L	C U
			0.500 ug/L C
			NA

C-15-3

0406

5173

TABLE C-15
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1721	SAMPLE NUMBER	067245	BORING NUMBER	1721	SAMPLE NUMBER	067236	BORING NUMBER	1722			
SAMPLING DATE	07/28/91			SAMPLING DATE	12-13.5		07/27/91	SAMPLING DATE	07/30/91			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Arsenic	0.150	mg/L	C	U	0.050	mg/L	C	U	0.150	mg/L	C	UJ
Barium	0.913	mg/L	C	-	0.839	mg/L	C	-	1.140	mg/L	C	JB
Cadmium	0.006	mg/L	C	-	0.019	mg/L	C	-	0.014	mg/L	C	R
Chromium	0.081	mg/L	C	-	0.061	mg/L	C	-	0.731	mg/L	C	R
Lead	0.040	mg/L	CCC	-	0.040	mg/L	C	CD	0.427	mg/L	C	R
Mercury	0.000	mg/L	C	-	0.000	mg/L	C	-	0.000	mg/L	C	UJ
Selenium	0.080	mg/L	C	-	0.105	mg/L	C	-	0.377	mg/L	C	JB
Silver	0.077	mg/L	C	-	0.055	mg/L	C	-	0.364	mg/L	C	R
<u>Volatile Organics</u>												
1,1-Dichloroethene	5.000	ug/L	C	U	NA				5.000	ug/L	C	U
1,2-Dichloroethane	5.000	ug/L	CCC	-	NA				5.000	ug/L	CCC	-
2-Butanone	7.000	ug/L	CCC	-	NA				2.000	ug/L	CCC	-
Benzene	5.000	ug/L	CCC	-	NA				5.000	ug/L	CCC	-
Carbon Tetrachloride	5.000	ug/L	CCC	-	NA				5.000	ug/L	CCC	-
Chlorobenzene	5.000	ug/L	CCC	-	NA				5.000	ug/L	CCC	-
Chloroform	5.000	ug/L	CCC	-	NA				5.000	ug/L	CCC	-
Pyridine	20.000	ug/L	CCC	-	NA				20.000	ug/L	CCC	-
Tetrachloroethene	5.000	ug/L	CCC	-	NA				30.000	ug/L	CCC	-
Trichloroethene	5.000	ug/L	CCC	-	NA				5.000	ug/L	CCC	-
Vinyl chloride	10.000	ug/L	C	U	NA				10.000	ug/L	C	U
<u>Semivolatile Organics</u>												
1,4-Dichlorobenzene	20.000	ug/L	C	U	NA				20.000	ug/L	C	R
2,4,5-Trichlorophenol	100.000	ug/L	CCC	-	NA				100.000	ug/L	C	R
2,4,6-Trichlorophenol	20.000	ug/L	CCC	-	NA				20.000	ug/L	C	R
2,4-Dinitrotoluene	20.000	ug/L	CCC	-	NA				20.000	ug/L	C	R
2-Methylphenol	20.000	ug/L	CCC	-	NA				20.000	ug/L	C	R
3-Methylphenol	20.000	ug/L	CCC	-	NA				20.000	ug/L	C	U
4-Methylphenol	20.000	ug/L	CCC	-	NA				20.000	ug/L	C	R
Hexachlorobenzene	20.000	ug/L	CCC	-	NA				20.000	ug/L	C	R
Hexachlorobutadiene	20.000	ug/L	CCC	-	NA				20.000	ug/L	C	R
Hexachloroethane	20.000	ug/L	CCC	-	NA				20.000	ug/L	C	R
Nitrobenzene	20.000	ug/L	CCC	-	NA				20.000	ug/L	C	R
Pentachlorophenol	100.000	ug/L	C	U	NA				8.000	ug/L	C	J
<u>Herbicide Organics</u>												
2,4,5-TP (Silvex)	1.800	ug/L	C	U	1.800	ug/L	C	U	1.800	ug/L	C	U
2,4-D	10.000	ug/L	C	U	10.000	ug/L	C	U	10.000	ug/L	C	U

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TABLE C-15
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1721	1721	1722			
SAMPLE NUMBER	067245	067236 12-13.5	067261			
SAMPLING DATE	07/28/91	07/27/91	07/30/91			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Pesticide Organics/PCBs</u>						
Endrin	0.100	ug/L C U	0.100	ug/L C U	0.100	ug/L C U
Heptachlor	0.050	ug/L C C U	0.050	ug/L C U	0.050	ug/L C U
Heptachlor epoxide	0.050	ug/L C C U	0.050	ug/L C U	0.050	ug/L C U
Methoxychlor	0.500	ug/L C C U	0.500	ug/L C C U	0.500	ug/L C U
Toxaphene	1.000	ug/L C C U	1.000	ug/L C C U	1.000	ug/L C U
alpha-Chlordane	0.500	ug/L C C U	0.500	ug/L C C U	0.500	ug/L C U
gamma-BHC (Lindane)	0.050	ug/L C C U	0.050	ug/L C C U	0.050	ug/L C U
gamma-Chlordane	0.500	ug/L C C U	0.500	ug/L C C U	0.500	ug/L C U

C-15-5

0408

TABLE C-15
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1722			1722			1808					
SAMPLE NUMBER	067253			067256			067402					
SAMPLING DATE	6-7.5 07/30/91			11-12.5 07/30/91			0-12.75 08/27/91					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	NA				NA				0.967	mg/L	C	-
Antimony	NA				NA				0.030	mg/L	C	-
Arsenic	0.250	mg/L	C	U	0.050	mg/L	C	U	0.002	mg/L	C	-
Barium	2.010	mg/L	C	-	0.085	mg/L	C	-	0.161	mg/L	C	-
Beryllium	NA				NA				0.002	mg/L	C	-
Cadmium	0.038	mg/L	C	-	0.002	mg/L	C	U	0.002	mg/L	C	-
Calcium	NA				NA				17.300	mg/L	C	-
Chromium	1.290	mg/L	C	-	0.010	mg/L	C	-	0.010	mg/L	C	-
Cobalt	NA				NA				0.010	mg/L	C	-
Copper	NA				NA				0.010	mg/L	C	-
Iron	NA				NA				0.824	mg/L	C	-
Lead	0.936	mg/L	C	-	0.040	mg/L	C	U	0.040	mg/L	C	-
Magnesium	NA				NA				4.170	mg/L	C	-
Manganese	NA				NA				0.008	mg/L	C	-
Mercury	0.000	mg/L	C	U	0.000	mg/L	C	U	0.000	mg/L	C	-
Molybdenum	NA				NA				0.010	mg/L	C	-
Nickel	NA				NA				0.020	mg/L	C	-
Potassium	NA				NA				0.489	mg/L	C	-
Selenium	0.741	mg/L	C	-	0.080	mg/L	C	U	0.002	mg/L	C	-
Silicon	NA				NA				4.340	mg/L	C	-
Silver	0.691	mg/L	C	-	0.010	mg/L	C	U	0.010	mg/L	C	-
Sodium	NA				NA				2.280	mg/L	C	-
Thallium	NA				NA				0.150	mg/L	C	-
Vanadium	NA				NA				0.010	mg/L	C	-
Zinc	NA				NA				0.176	mg/L	C	-
<u>Herbicide Organics</u>												
2,4,5-TP (Silvex)	NA				NA				1.800	ug/L	C	U
2,4-D	NA				NA				10.000	ug/L	C	U
<u>Pesticide Organics/PCBs</u>												
Endrin	0.100	ug/L	C	U	0.100	ug/L	C	U	0.100	ug/L	C	U
Heptachlor	NA				NA				0.050	ug/L	C	U
Heptachlor epoxide	NA				NA				0.050	ug/L	C	U
Methoxychlor	0.500	ug/L	C	U	0.500	ug/L	C	U	0.500	ug/L	C	U
Toxaphene	1.000	ug/L	C	U	1.000	ug/L	C	U	1.000	ug/L	C	U
alpha-Chlordane	NA				NA				0.500	ug/L	C	U
gamma-BHC (Lindane)	0.050	ug/L	C	U	0.050	ug/L	C	U	0.050	ug/L	C	U
gamma-Chlordane	NA				NA				0.500	ug/L	C	U
<u>General Chemistry</u>												
Alkalinity as CaCO ₃	NA				NA				45.000	mg/L	C	-

TABLE C-15
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1722	BORING NUMBER	1722	BORING NUMBER	1808							
SAMPLE NUMBER	067253	SAMPLE NUMBER	067256	SAMPLE NUMBER	067402							
SAMPLING DATE	6-7-5 07/30/91	SAMPLING DATE	11-12.5 07/30/91	SAMPLING DATE	0-12.75 08/27/91							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>												
Ammonia	NA					0.102	mg/L	C	-			
Chloride	NA					0.930	mg/L	C	-			
Fluoride	NA					1.400	mg/L	C	-			
Nitrate	NA					5.580	mg/L	C	-			
Phosphate	NA					0.030	mg/L	C	-			
Sulfate	NA					16.500	mg/L	C	-			
Total Organic Carbon	NA					4.380	mg/L	C	-			
pH	NA					7.220	stand	C	-			

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100-0173

TABLE C-15
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1808	1888		
SAMPLE NUMBER	067397	067719		
SAMPLING DATE	9-10.5 08/27/91	6-7.5 02/23/92		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
Inorganics				
Aluminum	0.553	mg/L C R	NA	
Antimony	0.030	mg/L C R	NA	
Arsenic	0.050	mg/L C R	NA	
Barium	0.064	mg/L C R	NA	
Beryllium	0.002	mg/L C R	NA	
Cadmium	0.002	mg/L C R	NA	
Calcium	18.400	mg/L C R	NA	
Chromium	0.010	mg/L C R	NA	
Cobalt	0.010	mg/L C R	NA	
Copper	0.016	mg/L C R	NA	
Iron	1.020	mg/L C R	NA	
Lead	0.040	mg/L C R	NA	
Magnesium	4.343	mg/L C R	NA	
Manganese	0.004	mg/L C R	NA	
Mercury	0.000	mg/L C R	NA	
Molybdenum	0.010	mg/L C R	NA	
Nickel	0.020	mg/L C R	NA	
Potassium	0.205	mg/L C R	NA	
Selenium	0.080	mg/L C R	NA	
Silicon	3.197	mg/L C R	NA	
Silver	0.010	mg/L C R	NA	
Sodium	1.650	mg/L C R	NA	
Thallium	0.002	mg/L C R	NA	
Vanadium	0.010	mg/L C R	NA	
Zinc	0.079	mg/L C R	NA	
Volatile Organics				
1,1-Dichloroethene	5.000	ug/L C U	5.000	ug/L C U
1,2-Dichloroethane	5.000	ug/L C U	5.000	ug/L C U
2-Butanone	5.000	ug/L C U	10.000	ug/L C U
Benzene	5.000	ug/L C U	5.000	ug/L C U
Carbon Tetrachloride	5.000	ug/L C U	5.000	ug/L C U
Chlorobenzene	5.000	ug/L C U	5.000	ug/L C U
Chloroform	5.000	ug/L C U	5.000	ug/L C U
Pyridine	20.000	ug/L C U	20.000	ug/L C U
Tetrachloroethene	1.000	ug/L C U	5.000	ug/L C U
Trichloroethene	5.000	ug/L C U	5.000	ug/L C U
Vinyl chloride	10.000	ug/L C U	10.000	ug/L C U
Semivolatile Organics				
1,4-Dichlorobenzene	20.000	ug/L C U	20.000	ug/L C U

TABLE C-15
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	1808 067397 9-10-5 08/27/91	RESULTS UNITS L VQ	1888 067719 6-7-5 02/23/92	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>				
2,4,5-Trichlorophenol	100.000 ug/L C U		100.000 ug/L C U	
2,4,6-Trichlorophenol	20.000 ug/L C U		20.000 ug/L C	
2,4-Dinitrotoluene	20.000 ug/L C U		20.000 ug/L C	
2-Methylphenol	20.000 ug/L C U		20.000 ug/L C	
3-Methylphenol	20.000 ug/L C U		20.000 ug/L C	
4-Methylphenol	20.000 ug/L C U		20.000 ug/L C	
Hexachlorobenzene	20.000 ug/L C U		20.000 ug/L C	
Hexachlorobutadiene	20.000 ug/L C U		20.000 ug/L C	
Hexachloroethane	20.000 ug/L C U		20.000 ug/L C	
Nitrobenzene	20.000 ug/L C U		20.000 ug/L C	
Pentachlorophenol	100.000 ug/L C U		100.000 ug/L C U	
<u>General Chemistry</u>				
Alkalinity as CaCO ₃	48.000 mg/L C -		NA	
Ammonia	0.100 mg/L C -		NA	
Chloride	0.960 mg/L C -		NA	
Fluoride	1.500 mg/L C -		NA	
Nitrate	5.580 mg/L C -		NA	
Oxidation-Reduction Potential of Water	243.700 mg/L C -		NA	
Phosphate	0.040 mg/L C -		NA	
Sulfate	9.190 mg/L C -		NA	
Total Organic Carbon	8.130 mg/L C -		NA	
pH	7.280 stand		NA	

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February 18, 1994

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TABLE C-15
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
SAMPLE NUMBER	1983 111478				1986 111454				1987 115358			
SAMPLING DATE	2.5-5 05/03/93				2.5-5 04/28/93				5-7.5 05/13/93			
CHEMICAL PARAMETERS												
<u>Inorganics</u>												
Arsenic	0.030	mg/L	C	UJ	0.525	mg/L	D	R	0.055	mg/L	C	C
Barium	1.330	mg/L	C	-	1.110	mg/L	D	-	1.460	mg/L	C	C
Cadmium	0.002	mg/L	C	U	0.002	mg/L	D	U	0.002	mg/L	C	C
Chromium	0.003	mg/L	C	U	0.003	mg/L	D	U	0.003	mg/L	C	C
Copper	0.002	mg/L	C	U	0.008	mg/L	D	U	0.002	mg/L	C	C
Iron	0.016	mg/L	C	U	0.064	mg/L	D	U	0.025	mg/L	C	C
Lead	0.015	mg/L	C	UJ	0.125	mg/L	D	U	0.015	mg/L	C	C
Manganese	0.078	mg/L	C	J	1.930	mg/L	D	U	0.228	mg/L	C	C
Mercury	0.000	mg/L	C	UJ	0.000	mg/L	D	U	0.000	mg/L	C	C
Selenium	0.030	mg/L	C	UJ	0.137	mg/L	D	U	0.030	mg/L	C	C
Silver	0.002	mg/L	C	UJ	0.013	mg/L	D	U	0.002	mg/L	C	C
Zinc	0.232	mg/L	C	R	0.195	mg/L	D	R	0.328	mg/L	C	R
<u>Volatile Organics</u>												
1,1-Dichloroethene	NA				5.000	ug/L	D	U	5.000	ug/L	C	U
1,2-Dichloroethane	NA				5.000	ug/L	D	U	5.000	ug/L	C	U
2-Butanone	NA				10.000	ug/L	D	U	10.000	ug/L	C	U
Benzene	NA				5.000	ug/L	D	U	5.000	ug/L	C	U
Carbon Tetrachloride	NA				5.000	ug/L	D	U	5.000	ug/L	C	U
Chlorobenzene	NA				5.000	ug/L	D	U	5.000	ug/L	C	U
Chloroform	NA				5.000	ug/L	D	U	5.000	ug/L	C	U
Pyridine	NA				5.000	ug/L	D	U	5.000	ug/L	C	U
Tetrachloroethene	NA				250.000	ug/L	D	U	250.000	ug/L	C	U
Trichloroethene	NA				5.000	ug/L	D	U	5.000	ug/L	C	U
Vinyl chloride	NA				5.000	ug/L	D	U	5.000	ug/L	C	U
10.000	ug/L	D	U	10.000	ug/L	D	U	10.000	ug/L	C	U	
<u>Semivolatile Organics</u>												
1,4-Dichlorobenzene	NA				50.000	ug/L	D	U	50.000	ug/L	C	U
2,4,5-Trichlorophenol	NA				250.000	ug/L	D	U	50.000	ug/L	C	U
2,4,6-Trichlorophenol	NA				50.000	ug/L	D	U	50.000	ug/L	C	U
2,4-Dinitrotoluene	NA				50.000	ug/L	D	U	50.000	ug/L	C	U
Hexachlorobenzene	NA				50.000	ug/L	D	U	50.000	ug/L	C	U
Hexachlorobutadiene	NA				50.000	ug/L	D	U	50.000	ug/L	C	U
Hexachloroethane	NA				50.000	ug/L	D	U	50.000	ug/L	C	U
Nitrobenzene	NA				50.000	ug/L	D	U	50.000	ug/L	C	U
Pentachlorophenol	NA				250.000	ug/L	D	U	250.000	ug/L	C	U
Total Methylphenol	NA				50.000	ug/L	D	U	50.000	ug/L	C	U
<u>Herbicide Organics</u>												
2,4,5-TP (Silvex)	NA				17.000	ug/L	D	U	17.000	ug/L	C	U

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TABLE C-15
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1983	1986	1987
SAMPLE NUMBER	111478	111454	115358
SAMPLING DATE	2.5-5 05/03/93	2.5-5 04/28/93	5-7.5 05/13/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Herbicide Organics</u>			RESULTS
2,4-D	NA		120.000 ug/L D U
			120.000 ug/L C U
<u>Pesticide Organics/PCBs</u>			
Chlordane	NA		1.400 ug/L C U
Endrin	NA		0.600 ug/L C U
Heptachlor	NA		0.300 ug/L C U
Heptachlor epoxide	NA		8.300 ug/L C U
Methoxychlor	NA		18.000 ug/L C U
Toxaphene	NA		24.000 ug/L C U
gamma-BHC (Lindane)	NA		0.400 ug/L C U

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18 15 17 3

TABLE C-15
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1990	1991	2951
SAMPLE NUMBER	115334	115320	111432
SAMPLING DATE	10-12.5 05/10/93	7.5-10 05/06/93	0-5.1 04/21/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Inorganics			
Arsenic	0.000	mg/L C U	0.049 mg/L C UJ
Barium	0.002	mg/L C U	1.320 mg/L C -
Cadmium	0.000	mg/L C U	0.002 mg/L C -
Chromium	0.000	mg/L C U	0.003 mg/L C U
Copper	0.000	mg/L C U	0.002 mg/L C U
Iron	0.000	mg/L C U	0.046 mg/L C U
Lead	0.000	mg/L C U	0.066 mg/L C U
Manganese	0.006	mg/L C U	5.500 mg/L C U
Mercury	0.000	mg/L C U	0.000 mg/L C U
Selenium	0.000	mg/L C U	0.129 mg/L C UJ
Silver	0.000	mg/L C UJ	0.002 mg/L C UJ
Zinc	0.000	mg/L C -	0.206 mg/L C R
			NA
			NA
			0.015 mg/L C UJ
			NA
			0.000 mg/L C UJ
			0.030 mg/L C UU
			0.002 mg/L C UU
			NA
Volatile Organics			
1,1,1-Trichloroethane	NA		15.000 ug/kg C U
1,1,2,2-Tetrachloroethane	NA		15.000 ug/kg C U
1,1,2-Trichloroethane	NA		15.000 ug/kg C U
1,1-Dichloroethane	NA		15.000 ug/kg C U
1,1-Dichloroethene	5.000	ug/L C U	15.000 ug/kg C U
1,2-Dichloroethane	5.000	ug/L C U	15.000 ug/kg C U
1,2-Dichloroethene	NA		15.000 ug/kg C U
1,2-Dichloropropane	NA		15.000 ug/kg C U
2-Butanone	10.000	ug/L C UJ	15.000 ug/kg C U
2-Hexanone	NA		15.000 ug/kg C U
4-Methyl-2-pentanone	NA		15.000 ug/kg C U
Acetone	NA		15.000 ug/kg C U
Benzene	5.000	ug/L C U	15.000 ug/kg C U
Bromodichloromethane	NA		15.000 ug/kg C U
Bromoform	NA		15.000 ug/kg C U
Bromomethane	NA		15.000 ug/kg C U
Carbon Tetrachloride	5.000	ug/L C U	15.000 ug/kg C U
Carbon disulfide	NA		15.000 ug/kg C U
Chlorobenzene	5.000	ug/L C U	15.000 ug/kg C U
Chloroethane	NA		15.000 ug/kg C U
Chloroform	5.000	ug/L C U	15.000 ug/kg C U
Chloromethane	NA		15.000 ug/kg C U
Dibromochloromethane	NA		15.000 ug/kg C U
Ethylbenzene	NA		15.000 ug/kg C U
Methylene chloride	NA		15.000 ug/kg C U
Pyridine	250.000	ug/L C U	50.000 ug/kg C U
Styrene	NA		NA
			15.000 ug/kg C U

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TABLE C-15
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1990	1991	2951
SAMPLE NUMBER	115334	115320	111432
SAMPLING DATE	10-12.5 05/10/93	7.5-10 05/06/93	0-5.1 04/21/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>			
Tetrachloroethene	5.000	ug/L	C U
Toluene	NA		
Trichloroethene	5.000	ug/L	C U
Vinyl Acetate	NA		
Vinyl chloride	10.000	ug/L	C U
Xylenes, Total	NA		
cis-1,3-Dichloropropene	NA		
trans-1,3-Dichloropropene	NA		
<u>Semivolatile Organics</u>			
1,4-Dichlorobenzene	50.000	ug/L	C U
2,4,5-Trichlorophenol	50.000	ug/L	C U
2,4,6-Trichlorophenol	50.000	ug/L	C U
2,4-Dinitrotoluene	50.000	ug/L	C U
Hexachlorobenzene	50.000	ug/L	C U
Hexachlorobutadiene	50.000	ug/L	C U
Hexachloroethane	50.000	ug/L	C U
Nitrobenzene	50.000	ug/L	C U
Pentachlorophenol	250.000	ug/L	C U
Total Methylphenol	50.000	ug/L	C U
<u>Herbicide Organics</u>			
2,4,5-TP (Silvex)	17000.000	ug/L	C U
2,4-D	120000.000	ug/L	C U
<u>Pesticide Organics/PCBs</u>			
Chlordane	1.400	ug/L	C U
Endrin	0.600	ug/L	C U
Heptachlor	0.300	ug/L	C U
Heptachlor epoxide	8.300	ug/L	C U
Methoxychlor	18.000	ug/L	C U
Toxaphene	24.000	ug/L	C U
gamma-BHC (Lindane)	0.400	ug/L	C U

C-15-13

TABLE C-16

SOLID WASTE LANDFILL
CIS RCRA HAZARDOUS CHARACTERISTICS AND
EP-TOXICITY RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

RCRA HAZARDOUS CHARACTERISTICS
A review of the RCRA parameters measured showed that all of the borehole samples were within the established limits for ignitability, corrosivity, and reactivity. The EP-TOX metals from each of the six boreholes were below the maximum allowable concentration.

EP-TOXICITY RESULTS				
Borehole Number	FEMP ID#	Parameter	Concentration (ug/L)	Qualifier ^a
49-02	FMP-PS-49-018	Barium, EP Leachate	3307.00	-
49-03	FMP-PS-49-032	Barium, EP Leachate	2502.00	-
49-04	FMP-PS-49-046	Barium, EP Leachate	1276.00	-
49-05	FMP-PS-49-055	Barium, EP Leachate	2421.00	-
49-06	FMP-PS-49-071	Barium, EP Leachate	2871.00	-

^aLaboratory qualifier, no data validation was performed.

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TABLE C-17
SOLID WASTE LANDFILL
RI/FS QUALITY CONTROL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

QC TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	RINSATE 008392 008388 03/21/88	RINSATE 007952 007901 01/13/88	RINSATE 067728 67718 02/24/92						
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	20.000	pCi/L	R	20.000	pCi/L	R	20.000	pCi/L	J
GROSS ALPHA	NA			NA			3.000	pCi/L	NV
GROSS BETA	NA			NA			4.000	pCi/L	NV
NP-237	1.000	pCi/L	UJ	0.600	pCi/L	J	1.000	pCi/L	U
PU-238	1.000	pCi/L	UJ	0.600	pCi/L	J	1.000	pCi/L	U
PU-239/240	1.000	pCi/L	UJ	0.600	pCi/L	J	1.000	pCi/L	U
RA-224	NA			NA			20.000	pCi/L	C
RA-226	1.000	pCi/L	UJ	2.100	pCi/L	J	1.000	pCi/L	C
RA-228	3.000	pCi/L	UJ	5.100	pCi/L	J	61.000	pCi/L	C
RU-106	150.000	pCi/L	R	150.000	pCi/L	R	150.000	pCi/L	C
SR-90	5.000	pCi/L	UJ	5.000	pCi/L	J	5.000	pCi/L	C
TC-99	30.000	pCi/L	UJ	30.000	pCi/L	J	30.000	pCi/L	C
TH-228	1.000	pCi/L	UJ	0.600	pCi/L	J	1.000	pCi/L	C
TH-230	1.000	pCi/L	UJ	1.000	pCi/L	J	1.000	pCi/L	C
TH-232	1.000	pCi/L	UJ	0.800	pCi/L	J	1.000	pCi/L	C
TH-TOTAL	NA			NA			3.200	ug/L	C
U-234	1.000	pCi/L	UJ	3.200	pCi/L	J	1.900	pCi/L	C
U-235	NA			NA			54.000	pCi/L	C
U-235/236	1.000	pCi/L	UJ	0.600	pCi/L	J	1.650	pCi/L	C
U-238	1.000	pCi/L	UJ	1.300	pCi/L	J	1.130	pCi/L	C
U-TOTAL	2.000	ug/L	UJ	2.000	ug/L	J	1.000	ug/L	C

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TABLE C-17
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

QC TYPE	RINSATE		
SAMPLE NUMBER	008125		
ASSOCIATED SAMPLES	007968, 008107, 008117		
SAMPLING DATE	02/17/88		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	20.000	pCi/L	R
NP-237	1.000	pCi/L	UJ
PU-238	1.000	pCi/L	UJ
PU-239/240	1.000	pCi/L	UJ
RA-226	1.000	pCi/L	UJ
RA-228	3.000	pCi/L	UJ
RU-106	150.000	pCi/L	R
SR-90	5.000	pCi/L	UJ
TC-99	30.000	pCi/L	UJ
TH-228	1.000	pCi/L	UJ
TH-230	1.000	pCi/L	UJ
TH-232	1.000	pCi/L	UJ
U-234	1.000	pCi/L	UJ
U-235/236	1.000	pCi/L	UJ
U-238	1.100	pCi/L	UJ
U-TOTAL	2.000	ug/L	

C-17.2

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE
SAMPLE NUMBER	008392	007952	008186
ASSOCIATED SAMPLES	008388	007901	
SAMPLING DATE	03/21/88	01/13/88	03/02/88
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
Inorganics			
Aluminum	NA		
Antimony	NA		
Arsenic	0.030	mg/L	4 U
Barium	0.002	mg/L	4 -
Beryllium	NA		
Cadmium	0.005	mg/L	4 U
Calcium	NA		
Chromium	0.010	mg/L	4 U
Cobalt	NA		
Copper	0.010	mg/L	4 -
Cyanide	NA		
Iron	5.400	mg/L	4 -
Lead	0.030	mg/L	4 U
Magnesium	NA		
Manganese	0.072	mg/L	4 -
Mercury	0.001	mg/L	4 U
Molybdenum	0.010	mg/L	4 U
Nickel	0.020	mg/L	4 U
Potassium	NA		
Selenium	0.060	mg/L	4 U
Silver	0.005	mg/L	4 R
Sodium	1.200	mg/L	4 -
Thallium	NA		
Vanadium	NA		
Zinc	NA		
Semivolatile Organics			
1,2,4-Trichlorobenzene	NA		
1,2-Dichlorobenzene	NA		
1,3-Dichlorobenzene	NA		
1,4-Dichlorobenzene	NA		
2,4,5-Trichlorophenol	NA		
2,4,6-Trichlorophenol	NA		
2,4-Dichlorophenol	NA		
2,4-Dimethylphenol	NA		
2,4-Dinitrophenol	NA		
2,4-Dinitrotoluene	NA		
2,6-Dinitrotoluene	NA		
2-Chloronaphthalene	NA		
2-Chlorophenol	NA		
2-Methylnaphthalene	NA		

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	RINSATE 008392 008388 03/21/88	RINSATE 007952 007901 01/13/88	RINSATE 008186 03/02/88
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>			
2-Methylphenol	NA	NA	0.010 mg/L 3 NV
2-Nitroaniline	NA	NA	0.050 mg/L 4 NV
2-Nitrophenol	NA	NA	0.010 mg/L 3 NV
3,3'-Dichlorobenzidine	NA	NA	0.020 mg/L 4 J
3-Nitroaniline	NA	NA	0.050 mg/L 3 R
4,6-Dinitro-2-methylphenol	NA	NA	0.050 mg/L 3 NV
4-Bromophenyl phenyl ether	NA	NA	0.010 mg/L 3 NV
4-Chloro-3-methylphenol	NA	NA	0.010 mg/L 3 NV
4-Chlorophenylphenyl ether	NA	NA	0.010 mg/L 3 NV
4-Methylphenol	NA	NA	0.010 mg/L 3 NV
4-Nitroaniline	NA	NA	0.050 mg/L 3 R
4-Nitrophenol	NA	NA	0.050 mg/L 3 NV
Acenaphthene	NA	NA	0.010 mg/L 3 NV
Acenaphthylene	NA	NA	0.010 mg/L 3 NV
Anthracene	NA	NA	0.010 mg/L 3 NV
Benzo(a)anthracene	NA	NA	0.010 mg/L 3 NV
Benzo(a)pyrene	NA	NA	0.010 mg/L 3 NV
Benzo(b)fluoranthene	NA	NA	0.010 mg/L 3 NV
Benzo(g,h,i)perylene	NA	NA	0.010 mg/L 3 NV
Benzo(k)fluoranthene	NA	NA	0.010 mg/L 3 NV
Benzoic acid	NA	NA	0.050 mg/L 4 J
Benzyl alcohol	NA	NA	0.010 mg/L 3 NV
Butyl benzyl phthalate	NA	NA	0.010 mg/L 3 NV
Chrysene	NA	NA	0.010 mg/L 3 NV
Di-n-butyl phthalate	NA	NA	0.010 mg/L 3 NV
Di-n-octyl phthalate	NA	NA	0.010 mg/L 3 NV
Dibenzo(a,h)anthracene	NA	NA	0.010 mg/L 3 NV
Dibenozofuran	NA	NA	0.010 mg/L 4 NV
Diethyl phthalate	NA	NA	0.010 mg/L 3 NV
Dimethyl phthalate	NA	NA	0.010 mg/L 3 NV
Fluoranthene	NA	NA	0.010 mg/L 3 NV
Fluorene	NA	NA	0.010 mg/L 4 NV
Hexachlorobenzene	NA	NA	0.010 mg/L 3 NV
Hexachlorobutadiene	NA	NA	0.010 mg/L 3 NV
Hexachlorocyclopentadiene	NA	NA	0.010 mg/L 3 NV
Hexachloroethane	NA	NA	0.010 mg/L 4 NV
Indeno(1,2,3-cd)pyrene	NA	NA	0.010 mg/L 4 NV
Isophorone	NA	NA	0.010 mg/L 4 NV
N-Nitroso-di-n-propylamine	NA	NA	0.010 mg/L 3 NV
N-Nitrosodiphenylamine	NA	NA	0.010 mg/L 3 NV
Naphthalene	NA	NA	0.010 mg/L 3 NV
Nitrobenzene	NA	NA	0.010 mg/L 3 NV

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE
SAMPLE NUMBER	008392	007952	008186
ASSOCIATED SAMPLES	008388	007901	
SAMPLING DATE	03/21/88	01/13/88	03/02/88
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Pentachlorophenol	NA		0.050 mg/L 3 NV
Phenanthrene	NA		0.010 mg/L 3 NV
Phenol	NA		0.010 mg/L 4 NV
Pyrene	NA		0.010 mg/L 4 NV
bis(2-Chloroethoxy)methane	NA		0.010 mg/L 3 NV
bis(2-Chloroethyl)ether	NA		0.010 mg/L 3 NV
bis(2-Chloroisopropyl) ether	NA		0.010 mg/L 3 NV
bis(2-Ethylhexyl) phthalate	NA		0.002 mg/L 3 R
p-Chloroaniline	NA		0.010 mg/L 3 R
<u>Herbicide Organics</u>			
2,4,5-T	NA		0.000 mg/L 3 NV
2,4,5-TP (Silvex)	NA		0.000 mg/L 4 NV
2,4-D	NA		0.000 mg/L 3 NV
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	NA		0.000 mg/L 3 NV
4,4'-DDE	NA		0.000 mg/L 3 NV
4,4'-DDT	NA		0.000 mg/L 3 NV
Aldrin	NA		0.000 mg/L 3 NV
Aroclor-1016	NA		0.001 mg/L 3 U
Aroclor-1221	NA		0.001 mg/L 3 U
Aroclor-1232	NA		0.001 mg/L 3 U
Aroclor-1242	NA		0.001 mg/L 3 U
Aroclor-1248	NA		0.001 mg/L 3 U
Aroclor-1254	NA		0.001 mg/L 3 U
Aroclor-1260	NA		0.001 mg/L 3 U
Dieldrin	NA		0.000 mg/L 3 NV
Endosulfan II	NA		0.000 mg/L 3 NV
Endosulfan sulfate	NA		0.000 mg/L 3 NV
Endosulfan-I	NA		0.000 mg/L 4 NV
Endrin	NA		0.000 mg/L 3 NV
Endrin ketone	NA		0.000 mg/L 3 NV
Heptachlor	NA		0.000 mg/L 3 NV
Heptachlor epoxide	NA		0.000 mg/L 3 NV
Methoxychlor	NA		0.001 mg/L 3 NV
Toxaphene	NA		0.001 mg/L 3 UJ
alpha-BHC	NA		0.000 mg/L 4 NV
alpha-Chlordane	NA		0.001 mg/L 3 NV
beta-BHC	NA		0.000 mg/L 3 NV

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FEMP-DU02-4 DRAFT
February 18, 1994

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE
SAMPLE NUMBER	008392	007952	008186
ASSOCIATED SAMPLES	008388	007901	
SAMPLING DATE	03/21/88	01/13/88	03/02/88
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>			
delta-BHC	NA	NA	0.000 mg/L 3 NV
gamma-BHC (Lindane)	NA	NA	0.000 mg/L 3 NV
gamma-Chlordane	NA	NA	0.001 mg/L 3 NV
<u>General Chemistry</u>			
Chloride	1.000 mg/L 4 NV	0.500 mg/L 3 U	NA
Fluoride	0.500 mg/L 4 NV	0.100 mg/L 3 U	NA
Hexavalent Chromium	0.020 mg/L 4 U	0.010 mg/L 3 R	NA
Nitrate	5.000 mg/L 4 NV	0.050 mg/L 3 R	NA
Phenols	0.010 mg/L 4 NV	0.010 mg/L 3 U	NA
Specific conductivity	13.980 umhos 4 -	NA	NA
Sulfate	1.000 mg/L 4 NV	2.600 mg/L 3 J	NA
pH	8.910 stand 4 -	NA	NA

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK				FIELD BLANK				FIELD BLANK				
SAMPLE NUMBER	067298				067299				067239				
ASSOCIATED SAMPLES	067287, 067295				067300, 067301				067237				
SAMPLING DATE	08/08/91				08/08/91				07/28/91				
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	
<u>Volatile Organics</u>													
1,1,1,2-Tetrachloroethane	0.005	mg/kg	4	U	NA	0.005	mg/kg	4	UJ	0.005	mg/L	3	U
1,1,1-Trichloroethane	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
1,1,2,2-Tetrachloroethane	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
1,1,2-Trichloroethane	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
1,1-Dichloroethane	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
1,1-Dichloroethene	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
1,2-Dibromo-3-chloropropane	0.010	mg/kg	4	U	NA	0.005	mg/kg	4	U	0.010	mg/L	3	U
1,2-Dibromoethane	0.005	mg/kg	4	U	NA	0.005	mg/kg	4	U	0.005	mg/L	3	U
1,2-Dichloroethane	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
1,2-Dichloroethene	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
1,2-Dichloropropane	0.005	mg/kg	4	U	NA	0.005	mg/kg	4	U	0.005	mg/L	3	U
1,4-Dioxane	0.043	mg/kg	4	J	NA	0.002	mg/kg	4	J	5.000	mg/L	3	R
2-Butanone	0.001	mg/kg	4	J	NA	0.010	mg/kg	4	UJ	0.010	mg/L	3	R
2-Chloro-1,3-butadiene	0.005	mg/kg	4	U	NA	0.010	mg/kg	4	UJ	0.005	mg/L	3	U
2-Hexanone	0.010	mg/kg	4	U	NA	0.010	mg/kg	4	UJ	0.010	mg/L	3	U
3-Chloropropene	0.005	mg/kg	4	U	NA	0.010	mg/kg	4	UJ	0.005	mg/L	3	U
4-Methyl-2-pentanone	0.002	mg/kg	4	J	NA	0.010	mg/kg	4	UJ	0.010	mg/L	3	J
Acetone	0.007	mg/kg	4	J	NA	0.010	mg/kg	4	UJ	0.010	mg/L	3	J
Acetonitrile	1.000	mg/kg	4	R	NA	0.010	mg/kg	4	UJ	1.000	mg/L	3	R
Acrolein	0.010	mg/kg	4	UJ	NA	0.010	mg/kg	4	UJ	0.010	mg/L	3	R
Acrylonitrile	0.010	mg/kg	4	UJ	NA	0.010	mg/kg	4	UJ	0.010	mg/L	3	R
Benzene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/L	3	U	
Bromodichloromethane	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.004	mg/L	3	J	
Bromoform	0.005	mg/kg	4	UJ	0.005	mg/kg	4	U	0.005	mg/L	3	U	
Bromomethane	0.010	mg/kg	4	UJ	0.010	mg/kg	4	U	0.010	mg/L	3	U	
Carbon Tetrachloride	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
Carbon disulfide	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
Chlorobenzene	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
Chloroethane	0.010	mg/kg	4	UJ	0.010	mg/kg	4	UJ	0.010	mg/L	3	U	
Chloroform	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.010	mg/L	3	U	
Chloromethane	0.010	mg/kg	4	UJ	0.010	mg/kg	4	U	0.026	mg/L	3	U	
Dibromochloromethane	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U	
Dibromomethane	0.010	mg/kg	4	U	NA	0.010	mg/kg	4	U	0.010	mg/L	3	U
Dichlorodifluoromethane	0.200	mg/kg	4	R	NA	0.200	mg/kg	4	R	0.200	mg/L	3	R
Ethyl cyanide	0.100	mg/kg	4	R	NA	0.100	mg/kg	4	R	0.100	mg/L	3	U
Ethyl methacrylate	0.010	mg/kg	4	U	NA	0.010	mg/kg	4	U	0.010	mg/L	3	U
Ethylbenzene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/L	3	U	
Iodomethane	0.005	mg/kg	4	U	NA	0.005	mg/kg	4	U	0.005	mg/L	3	U
Isobutyl alcohol	0.020	mg/kg	4	R	NA	0.020	mg/kg	4	R	0.020	mg/L	3	R
Methacrylonitrile	0.010	mg/kg	4	UJ	NA	0.010	mg/kg	4	U	0.010	mg/L	3	U
Methyl methacrylate	0.010	mg/kg	4	UJ	NA	0.010	mg/kg	4	U	0.010	mg/L	3	U
Methylene chloride	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.002	mg/L	3	U	

TABLE C-17
(Continued)

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PHASE I - CHEMICAL PARAMETERS

QC TYPE	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	FIELD BLANK	
SAMPLE NUMBER	067298				067299				067239					
ASSOCIATED SAMPLES	067287, 067295				067300, 067301				067237					
SAMPLING DATE	08/08/91				08/08/91				07/28/91					
CHEMICAL PARAMETERS														
<u>Volatile Organics</u>														
Pyridine	0.059	mg/kg	4	J	NA	0.005	mg/kg	4	UJ	0.020	mg/L	3	U	
Styrene	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U		
Tetrachloroethene	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U		
Toluene	0.002	mg/kg	4	J	0.002	mg/kg	4	UJ	0.001	mg/L	3	U		
Trichloroethene	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U		
Trichlorofluoromethane	0.002	mg/kg	4	J	NA	0.010	mg/kg	4	UJ	0.005	mg/L	3	U	
Vinyl Acetate	0.010	mg/kg	4	U	0.010	mg/kg	4	U	0.010	mg/L	3	U		
Vinyl chloride	0.010	mg/kg	4	U	0.010	mg/kg	4	U	0.010	mg/L	3	U		
Xylenes, Total	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U		
cis-1,3-Dichloropropene	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U		
trans-1,3-Dichloropropene	0.005	mg/kg	4	U	0.005	mg/kg	4	U	0.005	mg/L	3	U		
trans-1,4-Dichloro-2-butene	0.100	mg/kg	4	U	NA	0.005	mg/kg	4	U	0.100	mg/L	3	U	

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

CHEMICAL PARAMETERS	FIELD BLANK				FIELD BLANK				TRIP BLANK			
	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
1,1,2,2-Tetrachloroethane	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
1,1,2-Trichloroethane	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
1,1-Dichloroethane	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
1,1-Dichloroethene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
1,2-Dichloroethane	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
1,2-Dichloroethene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
1,2-Dichloropropane	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
2-Butanone	0.010	mg/kg	4	R	0.003	mg/kg	4	J	0.002	mg/kg	4	J
2-Hexanone	0.010	mg/kg	4	R	0.010	mg/kg	4	UJ	0.010	mg/kg	4	UJ
4-Methyl-2-pentanone	0.010	mg/kg	4	R	0.010	mg/kg	4	UJ	0.010	mg/kg	4	UJ
Acetone	0.010	mg/kg	4	R	0.014	mg/kg	4	J	0.008	mg/kg	4	J
Benzene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Bromodichloromethane	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Bromoform	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Bromomethane	0.010	mg/kg	4	U	0.010	mg/kg	4	UJ	0.010	mg/kg	4	UJ
Carbon Tetrachloride	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Carbon disulfide	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Chlorobenzene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Chloroethane	0.010	mg/kg	4	U	0.010	mg/kg	4	UJ	0.010	mg/kg	4	UJ
Chloroform	0.002	mg/kg	4	J	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Chloromethane	0.010	mg/kg	4	U	0.010	mg/kg	4	UJ	0.010	mg/kg	4	UJ
Dibromochloromethane	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Ethylbenzene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Methylene chloride	0.001	mg/kg	4	J	0.010	mg/kg	4	J	0.006	mg/kg	4	J
Styrene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Tetrachloroethene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Toluene	0.001	mg/kg	4	J	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Trichloroethene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
Vinyl Acetate	0.010	mg/kg	4	UJ	0.010	mg/kg	4	UJ	0.010	mg/kg	4	UJ
Vinyl chloride	0.010	mg/kg	4	U	0.010	mg/kg	4	UJ	0.010	mg/kg	4	UJ
Xylenes, Total	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
cis-1,3-Dichloropropene	0.005	mg/kg	4	U	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ
trans-1,3-Dichloropropene	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ	0.005	mg/kg	4	UJ

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TABLE C-17
(Continued)

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PHASE I - CHEMICAL PARAMETERS

QC TYPE	T/F BLANK	RINSATE	TRIP BLANK
SAMPLE NUMBER	067727	067728	067741
ASSOCIATED SAMPLES	067714, 067717, 067719	067714, 067717, 067719	067740
SAMPLING DATE	02/23/92	02/24/92	02/25/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	NA		0.135 mg/L 4 -
Antimony	NA		0.030 mg/L 4 U
Arsenic	NA		0.002 mg/L 4 U
Barium	NA		0.007 mg/L 4 -
Beryllium	NA		0.002 mg/L 4 U
Cadmium	NA		0.002 mg/L 4 U
Calcium	NA		0.045 mg/L 4 -
Chromium	NA		0.010 mg/L 4 U
Cobalt	NA		0.010 mg/L 4 U
Copper	NA		0.010 mg/L 4 U
Iron	NA		0.068 mg/L 4 -
Lead	NA		0.002 mg/L 4 U
Magnesium	NA		0.257 mg/L 4 -
Manganese	NA		0.002 mg/L 4 U
Mercury	NA		0.000 mg/L 4 UJ
Molybdenum	NA		0.010 mg/L 4 U
Nickel	NA		0.020 mg/L 4 U
Potassium	NA		0.116 mg/L 4 -
Selenium	NA		0.003 mg/L 4 U
Silicon	NA		0.385 mg/L 4 -
Silver	NA		0.010 mg/L 4 U
Sodium	NA		0.100 mg/L 4 U
Thallium	NA		0.002 mg/L 4 U
Tin	NA		0.200 mg/L 4 U
Vanadium	NA		0.010 mg/L 4 U
Zinc	NA		0.011 mg/L 4 -
<u>Volatile Organics</u>			
1,1,1,2-Tetrachloroethane	0.010	mg/L 4 U	0.010 mg/L 4 UJ
1,1,1-Trichloroethane	0.005	mg/L 4 U	0.005 mg/L 4 UJ
1,1,2,2-Tetrachloroethane	0.005	mg/L 4 U	0.005 mg/L 4 UJ
1,1,2-Trichloroethane	0.005	mg/L 4 U	0.005 mg/L 4 UJ
1,1-Dichloroethane	0.005	mg/L 4 U	0.005 mg/L 4 UJ
1,1-Dichloroethene	0.005	mg/L 4 U	0.005 mg/L 4 UJ
1,2-Dibromo-3-chloropropane	0.010	mg/L 4 U	0.010 mg/L 4 U
1,2-Dibromoethane	0.010	mg/L 4 U	0.010 mg/L 4 UJ
1,2-Dichloroethane	0.005	mg/L 4 U	0.005 mg/L 4 UJ
1,2-Dichloroethene	0.005	mg/L 4 U	0.005 mg/L 4 UJ
1,2-Dichloropropene	0.005	mg/L 4 U	0.005 mg/L 4 U
1,4-Dioxane	0.200	mg/L 4 R	0.200 mg/L 4 R
2-Butanone	0.010	mg/L 4 UJ	0.010 mg/L 4 U

TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	T/F BLANK				RINSATE				TRIP BLANK				
SAMPLE NUMBER	067727				067728				067741				
ASSOCIATED SAMPLES	067714, 067717, 067719				067714, 067717, 067719				067740				
SAMPLING DATE	02/23/92				02/24/92				02/25/92				
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	
<u>Volatile Organics</u>													
2-Chloro-1,3-butadiene	0.010	mg/L	4	U	0.010	mg/L	4	UJ	NA	0.010	mg/L	4	U
2-Hexanone	0.010	mg/L	4	UJ	0.010	mg/L	4	U	NA	0.010	mg/L	4	U
3-Chloropropene	0.010	mg/L	4	U	0.010	mg/L	4	U	NA	0.002	mg/L	4	J
4-Methyl-2-pentanone	0.010	mg/L	4	UJ	0.010	mg/L	4	U	NA	0.004	mg/L	4	J
Acetone	0.002	mg/L	4	J	0.005	mg/L	4	J	NA				
Acetonitrile	0.020	mg/L	4	U	0.020	mg/L	4	UJ	NA				
Acrolein	0.020	mg/L	4	U	0.020	mg/L	4	UJ	NA				
Acrylonitrile	0.020	mg/L	4	U	0.020	mg/L	4	U	NA				
Benzene	0.005	mg/L	4	U	0.005	mg/L	4	U	0.005	mg/L	4	U	
Bromodichloromethane	0.001	mg/L	4	J	0.001	mg/L	4	J	0.002	mg/L	4	J	
Bromoform	0.005	mg/L	4	U	0.005	mg/L	4	UJ	0.005	mg/L	4	UJ	
Bromomethane	0.010	mg/L	4	UJ	0.010	mg/L	4	UJ	0.010	mg/L	4	UJ	
Carbon Tetrachloride	0.005	mg/L	4	U	0.005	mg/L	4	UJ	0.005	mg/L	4	UJ	
Carbon disulfide	0.005	mg/L	4	U	0.005	mg/L	4	U	0.005	mg/L	4	U	
Chlorobenzene	0.005	mg/L	4	U	0.005	mg/L	4	U	0.005	mg/L	4	U	
Chloroethane	0.010	mg/L	4	U	0.010	mg/L	4	U	0.010	mg/L	4	U	
Chloroform	0.005	mg/L	4	-	0.004	mg/L	4	J	0.005	mg/L	4	J	
Chloromethane	0.010	mg/L	4	-	0.010	mg/L	4	U	0.010	mg/L	4	U	
Dibromochloromethane	0.005	mg/L	4	U	0.005	mg/L	4	UJ	0.005	mg/L	4	U	
Dibromomethane	0.010	mg/L	4	U	0.010	mg/L	4	U	NA				
Dichlorodifluoromethane	0.200	mg/L	4	R	0.200	mg/L	4	R	NA				
Ethyl cyanide	0.010	mg/L	4	U	0.010	mg/L	4	UJ	NA				
Ethyl methacrylate	0.010	mg/L	4	U	0.010	mg/L	4	U	NA				
Ethylbenzene	0.005	mg/L	4	U	0.005	mg/L	4	U	0.005	mg/L	4	U	
Iodomethane	0.010	mg/L	4	U	0.010	mg/L	4	U	NA				
Isobutyl alcohol	0.200	mg/L	4	U	0.200	mg/L	4	UJ	NA				
Methacrylonitrile	0.010	mg/L	4	U	0.010	mg/L	4	U	NA				
Methyl methacrylate	0.010	mg/L	4	U	0.010	mg/L	4	U	NA				
Methylene chloride	0.006	mg/L	4	-	0.045	mg/L	4	J	0.001	mg/L	4	J	
Styrene	0.005	mg/L	4	U	0.005	mg/L	4	U	0.005	mg/L	4	U	
Tetrachloroethene	0.005	mg/L	4	U	0.005	mg/L	4	U	0.005	mg/L	4	U	
Toluene	0.005	mg/L	4	U	0.005	mg/L	4	U	0.005	mg/L	4	U	
Trichloroethene	0.005	mg/L	4	U	0.005	mg/L	4	U	0.005	mg/L	4	U	
Trichlorofluoromethane	0.010	mg/L	4	U	0.010	mg/L	4	UJ	NA				
Vinyl Acetate	0.010	mg/L	4	U	0.010	mg/L	4	U	0.010	mg/L	4	J	
Vinyl chloride	0.010	mg/L	4	U	0.010	mg/L	4	U	0.010	mg/L	4	U	
Xylenes, Total	0.005	mg/L	4	UJ	0.005	mg/L	4	U	0.005	mg/L	4	U	
cis-1,3-Dichloropropene	0.005	mg/L	4	UJ	0.005	mg/L	4	UJ	0.005	mg/L	4	U	
trans-1,3-Dichloropropene	0.005	mg/L	4	UJ	0.005	mg/L	4	UJ	0.005	mg/L	4	U	
trans-1,4-Dichloro-2-butene	0.010	mg/L	4	U	0.010	mg/L	4	UJ	NA				
<u>Semivolatile Organics</u>													
1,2,4,5-Tetrachlorobenzene	NA				0.010	mg/L	4	UJ	NA				

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	T/F BLANK	RINSATE	TRIP BLANK
SAMPLE NUMBER	067727	067728	067741
ASSOCIATED SAMPLES	067714, 067717, 067719	067714, 067717, 067719	067740
SAMPLING DATE	02/23/92	02/24/92	02/25/92
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>			
1,2,4-Trichlorobenzene	NA	mg/L	4 C C C
1,2-Dichlorobenzene	NA	mg/L	4 C C C
1,3,5-Trinitrobenzene	NA	mg/L	4 C C C
1,3-Dichlorobenzene	NA	mg/L	4 C C C
1,3-Dinitrobenzene	NA	mg/L	4 C C C
1,4-Dichlorobenzene	NA	mg/L	4 C C C
1,4-Naphthoquinone	NA	mg/L	4 C C C
1-Naphthylamine	NA	mg/L	4 C C C
2,3,4,6-Tetrachlorophenol	NA	mg/L	4 C C C
2,4,5-Trichlorophenol	NA	mg/L	4 C C C
2,4,6-Trichlorophenol	NA	mg/L	4 C C C
2,4-Dichlorophenol	NA	mg/L	4 C C C
2,4-Dimethylphenol	NA	mg/L	4 C C C
2,4-Dinitrophenol	NA	mg/L	4 C C C
2,4-Dinitrotoluene	NA	mg/L	4 C C C
2,6-Dichlorophenol	NA	mg/L	4 C C C
2,6-Dinitrotoluene	NA	mg/L	4 C C C
2-Acetylaminofluorene	NA	mg/L	4 C C C
2-Chloronaphthalene	NA	mg/L	4 C C C
2-Chlorophenol	NA	mg/L	4 C C C
2-Methylnaphthalene	NA	mg/L	4 C C C
2-Methylphenol	NA	mg/L	4 C C C
2-Naphthylamine	NA	mg/L	4 C C C
2-Nitroaniline	NA	mg/L	4 C C C
2-Nitrophenol	NA	mg/L	4 C C C
2-Picoline	NA	mg/L	4 C C C
3,3'-Dichlorobenzidine	NA	mg/L	4 C C C
3,3'-Dimethylbenzidine	NA	mg/L	4 C C C
3-Methylcholanthrene	NA	mg/L	4 C C C
3-Methylphenol	NA	mg/L	4 C C C
3-Nitroaniline	NA	mg/L	4 C C C
4,6-Dinitro-2-methylphenol	NA	mg/L	4 C C C
4-Aminobiphenyl	NA	mg/L	4 C C C
4-Bromophenyl phenyl ether	NA	mg/L	4 C C C
4-Chloro-3-methylphenol	NA	mg/L	4 C C C
4-Chlorophenylphenyl ether	NA	mg/L	4 C C C
4-Methylphenol	NA	mg/L	4 C C C
4-Nitroaniline	NA	mg/L	4 C C C
4-Nitrophenol	NA	mg/L	4 C C C
4-Nitroquinoline-1-oxide	NA	mg/L	4 C C C
5-Nitro-o-toluidine	NA	mg/L	4 C C C
7,12-Dimethylbenz(a)anthracene	NA	mg/L	4 C C C

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	T/F BLANK	RINSATE	TRIP BLANK
SAMPLE NUMBER	067727	067728	067741
ASSOCIATED SAMPLES	067714, 067717, 067719	067714, 067717, 067719	067740
SAMPLING DATE	02/23/92	02/24/92	02/25/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Acenaphthene	NA		0.010 mg/L 4 U
Acenaphthylene	NA		0.010 mg/L 4 U
Acetophenone	NA		0.010 mg/L 4 U
Aniline	NA		0.050 mg/L 4 U
Anthracene	NA		0.010 mg/L 4 U
Aramite	NA		0.010 mg/L 4 U
Benzo(a)anthracene	NA		0.010 mg/L 4 U
Benzo(a)pyrene	NA		0.010 mg/L 4 U
Benzo(b)fluoranthene	NA		0.010 mg/L 4 U
Benzo(g,h,i)perylene	NA		0.010 mg/L 4 U
Benzo(k)fluoranthene	NA		0.010 mg/L 4 U
Benzoic acid	NA		0.010 mg/L 4 U
Benzyl alcohol	NA		0.050 mg/L 4 U
Butyl benzyl phthalate	NA		0.010 mg/L 4 U
Chrysene	NA		0.010 mg/L 4 U
Di-n-butyl phthalate	NA		0.010 mg/L 4 U
Di-n-octyl phthalate	NA		0.010 mg/L 4 U
Diallate	NA		0.010 mg/L 4 U
Dibenz(a,h)anthracene	NA		0.010 mg/L 4 U
Dibenzofuran	NA		0.010 mg/L 4 U
Diethyl phthalate	NA		0.010 mg/L 4 U
Dimethyl phthalate	NA		0.010 mg/L 4 U
Diphenylamine	NA		0.010 mg/L 4 U
Ethyl methanesulfonate	NA		0.010 mg/L 4 U
Fluoranthene	NA		0.010 mg/L 4 U
Fluorene	NA		0.010 mg/L 4 U
Hexachlorobenzene	NA		0.010 mg/L 4 U
Hexachlorobutadiene	NA		0.010 mg/L 4 U
Hexachlorocyclopentadiene	NA		0.010 mg/L 4 U
Hexachloroethane	NA		0.010 mg/L 4 U
Hexachlorophene	NA		0.010 mg/L 4 U
Hexachloropropene	NA		0.050 mg/L 4 U
Indeno(1,2,3-cd)pyrene	NA		0.020 mg/L 4 U
Isophorone	NA		0.010 mg/L 4 U
Isosafrole	NA		0.010 mg/L 4 U
Methaphyrlene	NA		0.040 mg/L 4 U
Methyl methanesulfonate	NA		0.010 mg/L 4 U
Methyl parathion	NA		0.000 mg/L 4 U
N-Nitroso-di-n-propylamine	NA		0.010 mg/L 4 U
N-Nitrosodi-n-butylamine	NA		0.020 mg/L 4 U
N-Nitrosodiethylamine	NA		0.010 mg/L 4 U
N-Nitrosodimethylamine	NA		0.010 mg/L 4 U

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	T/F BLANK	RINSATE	TRIP BLANK
SAMPLE NUMBER	067727	067728	067741
ASSOCIATED SAMPLES	067714, 067717, 067719	067714, 067717, 067719	067740
SAMPLING DATE	02/23/92	02/24/92	02/25/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
N-Nitrosodiphenylamine	NA		0.010 mg/L 4 U
N-Nitrosomethylamine	NA		0.010 mg/L 4 UU
N-Nitrosomorpholine	NA		0.010 mg/L 4 UU
N-Nitrosopiperidine	NA		0.010 mg/L 4 UJ
N-Nitrosopyrrolidine	NA		0.010 mg/L 4 UJ
Naphthalene	NA		0.010 mg/L 4 UU
Nitrobenzene	NA		0.010 mg/L 4 UU
O,O,O-Triethylphosphorothioate	NA		0.010 mg/L 4 UU
Parathion	NA		0.000 mg/L 4 UU
Pentachlorobenzene	NA		0.020 mg/L 4 UJ
Pentachloroethane	NA		0.010 mg/L 4 UU
Pentachloronitrobenzene	NA		0.020 mg/L 4 R
Pentachlorophenol	NA		0.050 mg/L 4 UU
Phenacetin	NA		0.010 mg/L 4 UU
Phenanthrene	NA		0.010 mg/L 4 UU
Phenol	NA		0.010 mg/L 4 UU
Pronamide	NA		0.030 mg/L 4 UU
Pyrene	NA		0.010 mg/L 4 UU
Safrole	NA		0.010 mg/L 4 UU
Sulfotep	NA		0.010 mg/L 3 UU
a,a-Dimethylphenethylamine	NA		0.010 mg/L 4 R
bis(2-Chloroethoxy)methane	NA		0.010 mg/L 4 UU
bis(2-Chloroethyl)ether	NA		0.010 mg/L 4 UU
bis(2-Chloroisopropyl) ether	NA		0.010 mg/L 4 UU
bis(2-Ethylhexyl) phthalate	NA		0.010 mg/L 4 UU
o-Toluidine	NA		0.010 mg/L 4 UU
p-Chloroaniline	NA		0.010 mg/L 4 UU
p-Dimethylaminoazobenzene	NA		0.030 mg/L 4 UU
p-Phenylenediamine	NA		0.050 mg/L 4 UJ
<u>Herbicide Organics</u>			
2,4,5-T	NA		0.002 mg/L 4 U
2,4,5-TP (Silvex)	NA		0.002 mg/L 4 U
2,4-D	NA		0.010 mg/L 4 UU
Dinoseb	NA		0.001 mg/L 4 U
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	NA		0.000 mg/L 4 U
4,4'-DDE	NA		0.000 mg/L 4 U
4,4'-DDT	NA		0.000 mg/L 4 U

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	T/F BLANK	RINSATE	TRIP BLANK
SAMPLE NUMBER	067727	067728	067741
ASSOCIATED SAMPLES	067714, 067717, 067719	067714, 067717, 067719	067740
SAMPLING DATE	02/23/92	02/24/92	02/25/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Pesticide Organics/PCBs</u>			
Aldrin	NA	0.000 mg/L 4 U	NA
Aroclor-1016	NA	0.001 mg/L 4 UU	NA
Aroclor-1221	NA	0.001 mg/L 4 UU	NA
Aroclor-1232	NA	0.001 mg/L 4 UU	NA
Aroclor-1242	NA	0.001 mg/L 4 UU	NA
Aroclor-1248	NA	0.001 mg/L 4 UU	NA
Aroclor-1254	NA	0.001 mg/L 4 UU	NA
Aroclor-1260	NA	0.001 mg/L 4 UU	NA
Azinphosmethyl	NA	0.000 mg/L 4 UU	NA
Chlorobenzilate	NA	0.000 mg/L 4 UU	NA
Demeton	NA	0.000 mg/L 4 UU	NA
Diazinon	NA	0.000 mg/L 4 UU	NA
Dieldrin	NA	0.000 mg/L 4 UU	NA
Disulfoton	NA	0.000 mg/L 4 UU	NA
Endosulfan II	NA	0.000 mg/L 4 UU	NA
Endosulfan sulfate	NA	0.000 mg/L 4 UU	NA
Endosulfan-I	NA	0.000 mg/L 4 UU	NA
Endrin	NA	0.000 mg/L 4 UU	NA
Endrin ketone	NA	0.000 mg/L 4 UU	NA
Ethion	NA	0.000 mg/L 4 UU	NA
Heptachlor	NA	0.000 mg/L 4 UU	NA
Heptachlor epoxide	NA	0.000 mg/L 4 UU	NA
Isodrin	NA	0.000 mg/L 4 UU	NA
Kepone	NA	0.000 mg/L 4 UU	NA
Malathion	NA	0.000 mg/L 4 UU	NA
Methoxychlor	NA	0.001 mg/L 4 UU	NA
Tetraethylpyrophosphate	NA	0.000 mg/L 4 UU	NA
Toxaphene	NA	0.001 mg/L 4 UU	NA
alpha-BHC	NA	0.000 mg/L 4 UU	NA
alpha-Chlordane	NA	0.001 mg/L 4 UU	NA
beta-BHC	NA	0.000 mg/L 4 UU	NA
delta-BHC	NA	0.000 mg/L 4 UU	NA
gamma-BHC (Lindane)	NA	0.000 mg/L 4 UU	NA
gamma-Chlordane	NA	0.001 mg/L 4 UU	NA
<u>Dioxins/Furans</u>			
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	NA	0.000 mg/L 5 U	NA
1,2,3,4,6,7,8-Heptachlorodibenzofuran	NA	0.000 mg/L 5 UU	NA
1,2,3,4,7,8,9-Heptachlorodibenzofuran	NA	0.000 mg/L 5 UU	NA
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	NA	0.000 mg/L 5 UU	NA
1,2,3,4,7,8-Hexachlorodibenzofuran	NA	0.000 mg/L 5 UU	NA

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	T/F BLANK	RINSATE	TRIP BLANK
SAMPLE NUMBER	067727	067728	067741
ASSOCIATED SAMPLES	067714, 067717, 067719	067714, 067717, 067719	067740
SAMPLING DATE	02/23/92	02/24/92	02/25/92
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Dioxins/Furans			
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	NA		0.000 mg/L S U
1,2,3,6,7,8-Hexachlorodibenzofuran	NA		0.000 mg/L S U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	NA		0.000 mg/L S U
1,2,3,7,8,9-Hexachlorodibenzofuran	NA		0.000 mg/L S U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	NA		0.000 mg/L S U
1,2,3,7,8-Pentachlorodibenzofuran	NA		0.000 mg/L S U
2,3,4,6,7,8-Hexachlorodibenzo-furan	NA		0.000 mg/L S U
2,3,4,7,8-Pentachlorodibenzo-furan	NA		0.000 mg/L S U
2,3,7,8-TCDD	NA		0.000 mg/L S U
2,3,7,8-TCDF	NA		0.000 mg/L S U
Heptachlorodibenzo-p-dioxin	NA		0.000 mg/L S U
Heptachlorodibenzofuran	NA		0.000 mg/L S U
Hexachlorodibenzo-p-dioxin	NA		0.000 mg/L S U
Hexachlorodibenzofuran	NA		0.000 mg/L S U
Octachlorodibenzo-p-dioxin	NA		0.000 mg/L S U
Octachlorodibenzofuran	NA		0.000 mg/L S U
Pentachlorodibenzo-p-dioxin	NA		0.000 mg/L S U
Pentachlorodibenzofuran	NA		0.000 mg/L S U
Tetrachlorodibenzo-p-dioxin	NA		0.000 mg/L S U
Tetrachlorodibenzofuran	NA		0.000 mg/L S U
General Chemistry			
Total Organic Carbon	NA		1.000 mg/L 3 U
			NA

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	RINSATE			
SAMPLE NUMBER	008125			
ASSOCIATED SAMPLES	007968, 008107, 008117			
SAMPLING DATE	02/17/88			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Inorganics</u>				
Aluminum	0.150	mg/L	3	-
Antimony	0.060	mg/L	3	U
Arsenic	0.005	mg/L	3	U
Barium	0.002	mg/L	3	U
Beryllium	0.001	mg/L	3	U
Cadmium	0.005	mg/L	3	U
Calcium	0.500	mg/L	3	-
Chromium	0.020	mg/L	3	U
Cobalt	0.010	mg/L	3	U
Copper	0.043	mg/L	3	U
Cyanide	0.010	mg/L	3	U
Iron	0.005	mg/L	3	U
Lead	0.013	mg/L	3	-
Magnesium	0.100	mg/L	3	-
Manganese	0.001	mg/L	3	U
Mercury	0.000	mg/L	3	U
Nickel	0.020	mg/L	3	U
Potassium	0.040	mg/L	3	U
Selenium	0.002	mg/L	3	U
Silver	0.005	mg/L	3	U
Sodium	0.110	mg/L	3	U
Thallium	0.005	mg/L	3	-
Vanadium	0.031	mg/L	3	-
Zinc	0.184	mg/L	3	U
<u>Volatile Organics</u>				
1,1,1-Trichloroethane	0.005	mg/L	3	U
1,1,2,2-Tetrachloroethane	0.005	mg/L	3	U
1,1,2-Trichloroethane	0.005	mg/L	3	U
1,1-Dichloroethane	0.005	mg/L	3	U
1,1-Dichloroethene	0.005	mg/L	3	U
1,2-Dichloroethane	0.005	mg/L	3	U
1,2-Dichloroethene	0.005	mg/L	3	U
1,2-Dichloropropane	0.005	mg/L	3	U
2-Butanone	0.005	mg/L	3	-
2-Hexanone	0.010	mg/L	3	U
4-Methyl-2-pentanone	0.010	mg/L	3	U
Acetone	0.010	mg/L	3	U
Benzene	0.005	mg/L	3	U
Bromodichloromethane	0.005	mg/L	3	U
Bromoform	0.005	mg/L	3	U

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	RINSATE			
SAMPLE NUMBER	008125			
ASSOCIATED SAMPLES				
SAMPLING DATE	02/17/88			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>				
Bromomethane	0.010	mg/L	3	U
Carbon Tetrachloride	0.005	mg/L	3	U
Carbon disulfide	0.005	mg/L	3	U
Chlorobenzene	0.005	mg/L	3	U
Chloroethane	0.010	mg/L	3	U
Chloroform	0.005	mg/L	3	U
Chloromethane	0.010	mg/L	3	U
Dibromochloromethane	0.005	mg/L	3	U
Ethylbenzene	0.005	mg/L	3	U
Methylene chloride	0.005	mg/L	3	U
Styrene	0.005	mg/L	3	U
Tetrachloroethene	0.005	mg/L	3	U
Toluene	0.005	mg/L	3	U
Trichloroethene	0.005	mg/L	3	U
Vinyl Acetate	0.010	mg/L	3	U
Vinyl chloride	0.010	mg/L	3	U
Xylenes, Total	0.005	mg/L	3	U
cis-1,3-Dichloropropene	0.005	mg/L	3	U
trans-1,3-Dichloropropene	0.005	mg/L	3	U
<u>Semivolatile Organics</u>				
1,2,4-Trichlorobenzene	0.010	mg/L	3	U
1,2-Dichlorobenzene	0.010	mg/L	3	U
1,3-Dichlorobenzene	0.010	mg/L	3	U
1,4-Dichlorobenzene	0.010	mg/L	3	U
2,4,5-Trichlorophenol	0.050	mg/L	3	U
2,4,6-Trichlorophenol	0.010	mg/L	3	U
2,4-Dichlorophenol	0.010	mg/L	3	U
2,4-Dimethylphenol	0.010	mg/L	3	U
2,4-Dinitrophenol	0.050	mg/L	3	U
2,4-Dinitrotoluene	0.010	mg/L	3	U
2,6-Dinitrotoluene	0.010	mg/L	3	U
2-Chloronaphthalene	0.010	mg/L	3	U
2-Chlorophenol	0.010	mg/L	3	U
2-Methylnaphthalene	0.010	mg/L	3	U
2-Methylphenol	0.010	mg/L	3	U
2-Nitroaniline	0.050	mg/L	3	U
2-Nitrophenol	0.010	mg/L	3	U
3,3'-Dichlorobenzidine	0.020	mg/L	3	U
3-Nitroaniline	0.050	mg/L	3	U
4,6-Dinitro-2-methylphenol	0.050	mg/L	3	U

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	RINSATE 008125	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>					
4-Bromophenyl phenyl ether	0.010	mg/L	3	U	
4-Chloro-3-methylphenol	0.010	mg/L	3	U	
4-Chlorophenylphenyl ether	0.010	mg/L	3	U	
4-Methylphenol	0.010	mg/L	3	U	
4-Nitroaniline	0.050	mg/L	3	U	
4-Nitrophenol	0.050	mg/L	3	U	
Acenaphthene	0.010	mg/L	3	U	
Acenaphthylene	0.010	mg/L	3	U	
Anthracene	0.010	mg/L	3	U	
Benzo(a)anthracene	0.010	mg/L	3	U	
Benzo(a)pyrene	0.010	mg/L	3	U	
Benzo(b)fluoranthene	0.010	mg/L	3	U	
Benzo(g,h,i)perylene	0.010	mg/L	3	U	
Benzo(k)fluoranthene	0.010	mg/L	3	U	
Benzoic acid	0.050	mg/L	3	U	
Benzyl alcohol	0.010	mg/L	3	U	
Butyl benzyl phthalate	0.010	mg/L	3	U	
Chrysene	0.010	mg/L	3	U	
Di-n-butyl phthalate	0.010	mg/L	3	U	
Di-n-octyl phthalate	0.010	mg/L	3	U	
Dibenzo(a,h)anthracene	0.010	mg/L	3	U	
Dibenzofuran	0.010	mg/L	3	U	
Diethyl phthalate	0.002	mg/L	3	U	
Dimethyl phthalate	0.010	mg/L	3	U	
Fluoranthene	0.010	mg/L	3	U	
Fluorene	0.010	mg/L	3	U	
Hexachlorobenzene	0.010	mg/L	3	U	
Hexachlorobutadiene	0.010	mg/L	3	U	
Hexachlorocyclopentadiene	0.010	mg/L	3	U	
Hexachloroethane	0.010	mg/L	3	U	
Indeno(1,2,3-cd)pyrene	0.010	mg/L	3	U	
Isophorone	0.010	mg/L	3	U	
N-Nitroso-di-n-propylamine	0.010	mg/L	3	U	
N-Nitrosodiphenylamine	0.010	mg/L	3	U	
Naphthalene	0.010	mg/L	3	U	
Nitrobenzene	0.010	mg/L	3	U	
Pentachlorophenol	0.050	mg/L	3	U	
Phenanthrene	0.010	mg/L	3	U	
Phenol	0.010	mg/L	3	U	
Pyrene	0.010	mg/L	3	U	
bis(2-Chloroethoxy)methane	0.010	mg/L	3	U	
bis(2-Chloroethyl)ether	0.010	mg/L	3	U	

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TABLE C-17
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	RINRATE 008125	RESULTS	UNITS	L	VQ
CHEMICAL PARAMETERS					
Semivolatile Organics					
bis(2-Chloroisopropyl) ether	0.010	mg/L	3	U	
bis(2-Ethylhexyl) phthalate	0.023	mg/L	3	U	
p-Chloroaniline	0.010	mg/L	3	U	
Pesticide Organics/PCBs					
4,4'-DDD	0.000	mg/L	3	U	
4,4'-DDE	0.000	mg/L	3	U	
4,4'-DDT	0.000	mg/L	3	U	
Aldrin	0.000	mg/L	3	U	
Aroclor-1016	0.001	mg/L	3	U	
Aroclor-1221	0.001	mg/L	3	U	
Aroclor-1232	0.001	mg/L	3	U	
Aroclor-1242	0.001	mg/L	3	U	
Aroclor-1248	0.001	mg/L	3	U	
Aroclor-1254	0.001	mg/L	3	U	
Aroclor-1260	0.001	mg/L	3	U	
Dieldrin	0.000	mg/L	3	U	
Endosulfan II	0.000	mg/L	3	U	
Endosulfan sulfate	0.000	mg/L	3	U	
Endosulfan-I	0.000	mg/L	3	U	
Endrin	0.000	mg/L	3	U	
Endrin ketone	0.000	mg/L	3	U	
Heptachlor	0.000	mg/L	3	U	
Heptachlor epoxide	0.000	mg/L	3	U	
Methoxychlor	0.001	mg/L	3	U	
Toxaphene	0.001	mg/L	3	U	
alpha-BHC	0.000	mg/L	3	U	
alpha-Chlordane	0.001	mg/L	3	U	
beta-BHC	0.000	mg/L	3	U	
delta-BHC	0.000	mg/L	3	U	
gamma-BHC (Lindane)	0.000	mg/L	3	U	
gamma-Chlordane	0.001	mg/L	3	U	
General Chemistry					
Chloride	0.500	mg/L	3	U	
Fluoride	0.100	mg/L	3	U	
Hexavalent Chromium	0.010	mg/L	3	U	
Nitrate	0.100	mg/L	3	U	
Phenols	0.010	mg/L	3	U	
Sulfate	2.500	mg/L	3	-	

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TABLE C-17
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

QA TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	FIELD BLANK			FIELD BLANK			RINSATE		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	20.000	pc ⁱ /L	*	14.200	pc ⁱ /L	UJ	13.700	pc ⁱ /L	UJ
GROSS ALPHA	4.000	pc ⁱ /L	*	0.455	pc ⁱ /L	UJ	0.496	pc ⁱ /L	UJ
GROSS BETA	4.000	pc ⁱ /L	*	0.966	pc ⁱ /L	UJ	1.090	pc ⁱ /L	UJ
NP-237	1.000	pc ⁱ /L	*	1.660	pc ⁱ /L	N	0.203	pc ⁱ /L	UJ
PU-238	0.091	pc ⁱ /L	J	0.121	pc ⁱ /L	UJ	0.028	pc ⁱ /L	UJ
PU-239/240	1.000	pc ⁱ /L	*	0.571	pc ⁱ /L	J	0.065	pc ⁱ /L	UJ
RA-226	0.051	pc ⁱ /L	J	0.310	pc ⁱ /L	UJ	0.126	pc ⁱ /L	UJ
RA-228	1.100	pc ⁱ /L	UJ	3.150	pc ⁱ /L	UJ	1.500	pc ⁱ /L	UJ
RU-106	110.000	pc ⁱ /L	*	160.000	pc ⁱ /L	UJ	130.000	pc ⁱ /L	UJ
SR-90	5.000	pc ⁱ /L	*	0.819	pc ⁱ /L	UJ	0.751	pc ⁱ /L	UJ
TC-99	12.500	pc ⁱ /L	UJ	11.800	pc ⁱ /L	UJ	1.070	pc ⁱ /L	UJ
TH-228	1.000	pc ⁱ /L	*	0.238	pc ⁱ /L	UJ	0.686	pc ⁱ /L	UJ
TH-230	1.000	pc ⁱ /L	*	0.166	pc ⁱ /L	J	0.351	pc ⁱ /L	UJ
TH-232	0.233	pc ⁱ /L	UJ	0.156	pc ⁱ /L	UJ	0.538	pc ⁱ /L	UJ
TH-TOTAL	2.140	ug/L	UJ	1.440	ug/L	UJ	4.950	ug/L	UJ
U-234	0.109	pc ⁱ /L	J	0.156	pc ⁱ /L	UJ	0.081	pc ⁱ /L	UJ
U-235/236	1.000	pc ⁱ /L	*	0.125	pc ⁱ /L	UJ	0.100	pc ⁱ /L	UJ
U-238	0.033	pc ⁱ /L	g	0.083	pc ⁱ /L	UJ	0.081	pc ⁱ /L	UJ
U-TOTAL	5.000	ug/L	*	1.000	ug/L	UJ	1.000	ug/L	UJ

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TABLE C-17
(Continued)

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PHASE II - RADIOLOGICAL PARAMETERS

QA TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	RINSATE		
	115399		
	116427		
	05/25/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	14.200	pCi/L	UJ
GROSS ALPHA	0.433	pCi/L	UJ
GROSS BETA	0.976	pCi/L	UJ
NP-237	0.527	pCi/L	U
PU-238	0.057	pCi/L	U
PU-239/240	0.160	pCi/L	J
RA-226	0.244	pCi/L	UU
RA-228	1.750	pCi/L	UU
RU-106	134.000	pCi/L	UU
SR-90	1.510	pCi/L	J
TC-99	10.900	pCi/L	UU
TH-228	0.316	pCi/L	UU
TH-230	0.332	pCi/L	J
TH-232	0.207	pCi/L	UU
TH-TOTAL	1.900	ug/L	UU
U-234	0.114	pCi/L	UU
U-235/236	0.102	pCi/L	UU
U-238	0.114	pCi/L	J
U-TOTAL	0.077	ug/L	J

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE
SAMPLE NUMBER
ASSOCIATED SAMPLES
SAMPLING DATE

CHEMICAL PARAMETERS

QA TYPE	11039	1992	1993										
SAMPLE NUMBER	115387	115347	115341										
ASSOCIATED SAMPLES	115384, 115385, 115389, 115390	115343, 115346, 115345	115339, 115340										
SAMPLING DATE	05/19/93	05/11/93	05/11/93										
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	
<u>Volatile Organics</u>													
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
2-Butanone	0.004	mg/L	C	J	0.010	mg/L	C	U	0.010	mg/L	C	U	
2-Hexanone	0.010	mg/L	C	UJ	0.010	mg/L	C	UJ	0.010	mg/L	C	U	
4-Methyl-2-pentanone	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U	
Acetone	0.002	mg/L	C	J	0.007	mg/L	C	R	0.010	mg/L	C	U	
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Methylene chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U	
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Vinyl Acetate	0.010	mg/L	C	UJ	NA				0.010	mg/L	C	U	
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	

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TABLE C-17
(Continued)

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PHASE II - CHEMICAL PARAMETERS

QA TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	FIELD BLANK			FIELD BLANK			FIELD BLANK		
	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
Inorganics									
Aluminum	0.030	mg/L	C	NA			0.045	mg/L	C
Antimony	0.005	mg/L	C	NA			0.059	mg/L	C
Arsenic	0.002	mg/L	CCC	NA			0.001	mg/L	CCC
Barium	0.002	mg/L	CCC	NA			0.002	mg/L	CCC
Beryllium	0.002	mg/L	CCC	NA			0.000	mg/L	CCC
Cadmium	0.005	mg/L	CCC	NA			0.003	mg/L	CCC
Calcium	0.043	mg/L	CCC	NA			0.049	mg/L	CCC
Chromium	0.010	mg/L	CCC	NA			0.005	mg/L	CCC
Cobalt	0.010	mg/L	CCC	NA			0.004	mg/L	CCC
Copper	0.010	mg/L	CCC	NA			0.005	mg/L	CCC
Cyanide	0.002	mg/L	CCC	NA			0.002	mg/L	CCC
Iron	0.020	mg/L	CCC	NA			0.025	mg/L	CCC
Lead	0.002	mg/L	CCC	NA			0.003	mg/L	CCC
Magnesium	0.050	mg/L	CCC	NA			0.047	mg/L	CCC
Manganese	0.010	mg/L	CCC	NA			0.001	mg/L	CCC
Mercury	0.000	mg/L	CCC	NA			0.000	mg/L	CCC
Molybdenum	0.020	mg/L	CCC	NA			0.007	mg/L	CCC
Nickel	0.020	mg/L	CCC	NA			0.021	mg/L	CCC
Potassium	0.100	mg/L	CCC	NA			2.980	mg/L	CCC
Selenium	0.002	mg/L	CCC	NA			0.001	mg/L	CCC
Silicon	0.157	mg/L	CCC	NA			0.047	mg/L	CCC
Silver	0.010	mg/L	CCC	NA			0.006	mg/L	CCC
Sodium	0.100	mg/L	CCC	NA			0.038	mg/L	CCC
Thallium	0.002	mg/L	CCC	NA			0.001	mg/L	CCC
Vanadium	0.010	mg/L	CCC	NA			0.003	mg/L	CCC
Zinc	0.008	mg/L	C	NA			0.008	mg/L	C
Volatile Organics									
1,1,1-Trichloroethane	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C
1,1,2,2-Tetrachloroethane	0.010	mg/L	CCC	0.010	mg/L	CCC	0.010	mg/L	CCC
1,1,2-Trichloroethane	0.010	mg/L	CCC	0.010	mg/L	CCC	0.010	mg/L	CCC
1,1-Dichloroethane	0.010	mg/L	CCC	0.010	mg/L	CCC	0.010	mg/L	CCC
1,1-Dichloroethene	0.010	mg/L	CCC	0.010	mg/L	CCC	0.010	mg/L	CCC
1,2-Dichloroethane	0.010	mg/L	CCC	0.010	mg/L	CCC	0.010	mg/L	CCC
1,2-Dichloroethene	0.010	mg/L	CCC	0.010	mg/L	CCC	0.010	mg/L	CCC
1,2-Dichloropropane	0.010	mg/L	CCC	0.010	mg/L	CCC	0.010	mg/L	CCC
2-Butanone	0.010	mg/L	CCC	0.010	mg/L	CCC	0.010	mg/L	CCC
2-Hexanone	0.010	mg/L	CCC	0.010	mg/L	CCC	0.010	mg/L	CCC
4-Methyl-2-pentanone	0.010	mg/L	CCC	0.010	mg/L	CCC	0.010	mg/L	CCC
Acetone	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C
Benzene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C

TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE CHEMICAL PARAMETERS	FIELD BLANK				FIELD BLANK				FIELD BLANK			
	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.003	mg/L	C	U	0.005	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.011	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
1,2-Dichlorobenzene	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
1,3-Dichlorobenzene	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
1,4-Dichlorobenzene	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
2,4,5-Trichlorophenol	0.025	mg/L	C	U	NA				0.025	mg/L	C	U
2,4,6-Trichlorophenol	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
2,4-Dichlorophenol	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
2,4-Dimethylphenol	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
2,4-Dinitrophenol	0.025	mg/L	C	U	NA				0.025	mg/L	C	U
2,4-Dinitrotoluene	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
2,6-Dinitrotoluene	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
2-Benzyl-4-chlorophenol	NA				NA				0.010	mg/L	C	U
2-Chloronaphthalene	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
2-Chlorophenol	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
2-Methylnaphthalene	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
2-Methylphenol	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
2-Nitroaniline	0.025	mg/L	C	U	NA				0.025	mg/L	C	U
2-Nitrophenol	0.010	mg/L	C	U	NA				0.010	mg/L	C	U

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	FIELD BLANK			FIELD BLANK			FIELD BLANK					
SAMPLE NUMBER	111331	L	VQ	115472	L	VQ	115486	L	VQ			
ASSOCIATED SAMPLES	111333			115468, 115470, 115471			115480					
SAMPLING DATE	04/08/93			05/15/93			06/08/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
3-Nitroaniline	0.025	mg/L	C	UQ	NA				0.025	mg/L	C	UQ
4,6-Dinitro-2-methylphenol	0.025	mg/L	C	UQ	NA				0.025	mg/L	C	UQ
4-Bromophenyl phenyl ether	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
4-Chloro-3-methylphenol	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
4-Chlorophenylphenyl ether	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
4-Methylphenol	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
4-Nitroaniline	0.025	mg/L	C	UQ	NA				0.025	mg/L	C	UQ
4-Nitrophenol	0.025	mg/L	C	UQ	NA				0.025	mg/L	C	UQ
Acenaphthene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Acenaphthylene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Anthracene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Benzo(a)anthracene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Benzo(a)pyrene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Benzo(b)fluoranthene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Benzo(g,h,i)perylene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Benzo(k)fluoranthene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Benzoic acid	0.050	mg/L	C	UQ	NA				0.050	mg/L	C	UQ
Benzyl alcohol	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Butyl benzyl phthalate	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Carbazole	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Chrysene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Di-n-butyl phthalate	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Di-n-octyl phthalate	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Dibenzo(a,h)anthracene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Dibenzofuran	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Diethyl phthalate	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Dimethyl phthalate	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Fluoranthene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Fluorene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Hexachlorobenzene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Hexachlorobutadiene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Hexachlorocyclopentadiene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Hexachloroethane	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Indeno(1,2,3-cd)pyrene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Isophorone	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
N-Nitroso-di-n-propylamine	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
N-Nitrosodimethylamine	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
N-Nitrosodiphenylamine	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Naphthalene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Nitrobenzene	0.010	mg/L	C	UQ	NA				0.010	mg/L	C	UQ
Pentachlorophenol	0.025	mg/L	C	UQ	NA				0.025	mg/L	C	UQ

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	FIELD BLANK				FIELD BLANK				FIELD BLANK			
SAMPLE NUMBER	111331				115472				115486			
ASSOCIATED SAMPLES	111333				115469, 115470, 115471				115480			
SAMPLING DATE	04/08/93				05/15/93				06/08/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Phenanthrene	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
Phenol	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
Pyrene	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
Tributyl phosphate	NA				NA				0.010	mg/L	C	U
bis(2-Chloroethoxy)methane	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
bis(2-Chloroethyl)ether	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
bis(2-Chloroisopropyl) ether	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
bis(2-Ethylhexyl) phthalate	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
p-Chloroaniline	0.010	mg/L	C	U	NA				0.010	mg/L	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
4,4'-DDE	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
4,4'-DDT	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Aldrin	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Aroclor-1016	0.001	mg/L	C	U	NA				0.001	mg/L	C	U
Aroclor-1221	0.002	mg/L	C	U	NA				0.002	mg/L	C	U
Aroclor-1232	0.001	mg/L	C	U	NA				0.001	mg/L	C	U
Aroclor-1242	0.001	mg/L	C	U	NA				0.001	mg/L	C	U
Aroclor-1248	0.001	mg/L	C	U	NA				0.001	mg/L	C	U
Aroclor-1254	0.001	mg/L	C	U	NA				0.001	mg/L	C	U
Aroclor-1260	0.001	mg/L	C	U	NA				0.001	mg/L	C	U
Dieldrin	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Endosulfan II	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Endosulfan sulfate	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Endosulfan-I	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Endrin	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Endrin aldehyde	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Endrin ketone	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Heptachlor	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Heptachlor epoxide	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
Methoxychlor	0.001	mg/L	C	U	NA				0.001	mg/L	C	U
Toxaphene	0.005	mg/L	C	U	NA				0.005	mg/L	C	U
alpha-BHC	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
alpha-Chlordane	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
beta-BHC	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
delta-BHC	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
gamma-BHC (Lindane)	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
gamma-Chlordane	0.000	mg/L	C	U	NA				0.000	mg/L	C	U
<u>General Chemistry</u>												
Alkalinity	1.000	mg/L	B	U	NA				2.200	mg/L	B	U

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	FIELD BLANK			FIELD BLANK			FIELD BLANK					
SAMPLE NUMBER	111331			115472			115486					
ASSOCIATED SAMPLES	111333			115468, 115470, 115471			115480					
SAMPLING DATE	04/08/93			05/15/93			06/08/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>												
Ammonia	0.100	mg/L	B	U	NA				0.100	mg/L	B	U
Chloride	0.500	mg/L	B	U	NA				0.500	mg/L	B	U
Fluoride	0.050	mg/L	B	U	NA				0.050	mg/L	B	U
Nitrate	0.100	mg/L	B	R	NA				0.100	mg/L	B	U
Phenols	0.010	mg/L	B	U	NA				0.010	mg/L	B	U
Sulfate	2.000	mg/L	B	U	NA				2.000	mg/L	B	U
Sulfide	0.500	mg/L	B	U	NA				2.440	mg/L	B	U
Total Kjeldahl Nitrogen	0.100	mg/L	B	U	NA				0.100	mg/L	B	U
Total Organic Carbon	1.000	mg/L	B	U	NA				1.000	mg/L	B	U
Total Organic Halides	0.010	mg/L	B	U	NA				0.010	mg/L	B	U
Total Organic Nitrogen	0.100	mg/L	B	U	NA				0.100	mg/L	B	U
Total Phosphorous	0.020	mg/L	B	U	NA				0.020	mg/L	B	U

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	RINSATE	RINSATE	TRIP BLANK	
SAMPLE NUMBER	111501	115399	111294	
ASSOCIATED SAMPLES	111492	116427	111289	
SAMPLING DATE	05/20/93	05/25/93	04/07/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
Inorganics				
Aluminum	0.068	mg/L C U	0.104	mg/L
Antimony	0.005	mg/L C U	0.005	mg/L
Arsenic	0.002	mg/L C U	0.002	mg/L
Barium	0.002	mg/L C U	0.002	mg/L
Beryllium	0.002	mg/L C U	0.002	mg/L
Cadmium	0.005	mg/L C U	0.005	mg/L
Calcium	0.036	mg/L C U	0.020	mg/L
Chromium	0.010	mg/L C U	0.010	mg/L
Cobalt	0.010	mg/L C U	0.010	mg/L
Copper	0.010	mg/L C U	0.010	mg/L
Cyanide	0.002	mg/L C U	0.002	mg/L
Iron	0.020	mg/L C U	0.020	mg/L
Lead	0.002	mg/L C U	0.002	mg/L
Magnesium	0.050	mg/L C U	0.050	mg/L
Manganese	0.010	mg/L C U	0.010	mg/L
Mercury	0.000	mg/L C U	0.000	mg/L
Molybdenum	0.020	mg/L C U	0.010	mg/L
Nickel	0.020	mg/L C U	0.020	mg/L
Potassium	0.100	mg/L C U	0.100	mg/L
Selenium	0.002	mg/L C U	0.002	mg/L
Silicon	0.109	mg/L C U	0.228	mg/L
Silver	0.010	mg/L C U	0.010	mg/L
Sodium	0.100	mg/L C U	0.717	mg/L
Thallium	0.002	mg/L C U	0.002	mg/L
Vanadium	0.010	mg/L C U	0.010	mg/L
Zinc	0.005	mg/L C U	0.005	mg/L
Volatile Organics				
1,1,1-Trichloroethane	0.010	mg/L C U	0.010	mg/L
1,1,2,2-Tetrachloroethane	0.010	mg/L C U	0.010	mg/L
1,1,2-Trichloroethane	0.010	mg/L C U	0.010	mg/L
1,1-Dichloroethane	0.010	mg/L C U	0.010	mg/L
1,1-Dichloroethene	0.010	mg/L C U	0.010	mg/L
1,2-Dichloroethane	0.010	mg/L C U	0.010	mg/L
1,2-Dichloroethene	0.010	mg/L C U	0.010	mg/L
1,2-Dichloropropane	0.010	mg/L C U	0.010	mg/L
2-Butanone	0.010	mg/L C U	0.010	mg/L
2-Hexanone	0.010	mg/L C U	0.010	mg/L
4-Methyl-2-pentanone	0.010	mg/L C U	0.010	mg/L
Acetone	0.010	mg/L C U	0.010	mg/L
Benzene	0.010	mg/L C U	0.010	mg/L

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	RINSATE	RINSATE	TRIP BLANK			
SAMPLE NUMBER	111501	115399	111294			
ASSOCIATED SAMPLES	111492		111289			
SAMPLING DATE	05/20/93	05/25/93	04/07/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
Bromodichloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Bromoform	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Bromomethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Carbon Tetrachloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Carbon disulfide	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Chlorobenzene	0.010	mg/L C U	0.010	mg/L C U	0.006	mg/L C CCC
Chloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Chloroform	0.003	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Chloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Dibromochloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Ethylbenzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Methylene chloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Styrene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Tetrachloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Toluene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Trichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Vinyl Acetate	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Vinyl chloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Xylenes, Total	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
cis-1,3-Dichloropropene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
trans-1,3-Dichloropropene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C CCC
Semivolatile Organics						
1,2,4-Trichlorobenzene	0.010	mg/L C U	0.010	mg/L C U	NA	
1,2-Dichlorobenzene	0.010	mg/L C U	0.010	mg/L C U	NA	
1,3-Dichlorobenzene	0.010	mg/L C U	0.010	mg/L C U	NA	
1,4-Dichlorobenzene	0.010	mg/L C U	0.010	mg/L C U	NA	
2,4,5-Trichlorophenol	0.025	mg/L C U	0.025	mg/L C U	NA	
2,4,6-Trichlorophenol	0.010	mg/L C U	0.010	mg/L C U	NA	
2,4-Dichlorophenol	0.010	mg/L C U	0.010	mg/L C U	NA	
2,4-Dimethylphenol	0.010	mg/L C U	0.010	mg/L C U	NA	
2,4-Dinitrophenol	0.025	mg/L C U	0.025	mg/L C U	NA	
2,4-Dinitrotoluene	0.010	mg/L C U	0.010	mg/L C U	NA	
2,6-Dinitrotoluene	0.010	mg/L C U	0.010	mg/L C U	NA	
2-Benzyl-4-chlorophenol	0.010	mg/L C U	NA		NA	
2-Chloronaphthalene	0.010	mg/L C U	0.010	mg/L C U	NA	
2-Chlorophenol	0.010	mg/L C U	0.010	mg/L C U	NA	
2-Methylnaphthalene	0.010	mg/L C U	0.010	mg/L C U	NA	
2-Methylphenol	0.010	mg/L C U	0.010	mg/L C U	NA	
2-Nitroaniline	0.025	mg/L C U	0.025	mg/L C U	NA	
2-Nitrophenol	0.010	mg/L C U	0.010	mg/L C U	NA	

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	RINSATE	RINSATE	TRIP BLANK
SAMPLE NUMBER	111501	115399	111294
ASSOCIATED SAMPLES	111492		111289
SAMPLING DATE	05/20/93	05/25/93	04/07/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Semivolatile Organics			
3,3'-Dichlorobenzidine	0.010	mg/L C UU	0.010 mg/L C UU
3-Nitroaniline	0.025	mg/L C UU	0.025 mg/L C UU
4,6-Dinitro-2-methylphenol	0.025	mg/L C UU	0.025 mg/L C UU
4-Bromophenyl phenyl ether	0.010	mg/L C UU	0.010 mg/L C UU
4-Chloro-3-methylphenol	0.010	mg/L C UU	0.010 mg/L C UU
4-Chlorophenylphenyl ether	0.010	mg/L C UU	0.010 mg/L C UU
4-Methylphenol	0.010	mg/L C UU	0.010 mg/L C UU
4-Nitroaniline	0.025	mg/L C UU	0.025 mg/L C UU
4-Nitrophenol	0.025	mg/L C UU	0.025 mg/L C UU
Acenaphthene	0.010	mg/L C UU	0.010 mg/L C UU
Acenaphthylenne	0.010	mg/L C UU	0.010 mg/L C UU
Anthracene	0.010	mg/L C UU	0.010 mg/L C UU
Benzo(a)anthracene	0.010	mg/L C UU	0.010 mg/L C UU
Benzo(a)pyrene	0.010	mg/L C UU	0.010 mg/L C UU
Benzo(b)fluoranthene	0.010	mg/L C UU	0.010 mg/L C UU
Benzo(g,h,i)perylene	0.010	mg/L C UU	0.010 mg/L C UU
Benzo(k)fluoranthene	0.010	mg/L C UU	0.010 mg/L C UU
Benzoic acid	0.050	mg/L C UU	0.010 mg/L C UU
Benzyl alcohol	0.010	mg/L C UU	NA NA
Butyl benzyl phthalate	0.010	mg/L C UU	0.010 mg/L C UU
Carbazole	0.010	mg/L C UU	0.010 mg/L C UU
Chrysene	0.010	mg/L C UU	0.010 mg/L C UU
Di-n-butyl phthalate	0.010	mg/L C UU	0.010 mg/L C UU
Di-n-octyl phthalate	0.010	mg/L C UU	0.010 mg/L C UU
Dibenz(a,h)anthracene	0.010	mg/L C UU	0.010 mg/L C UU
Dibenzofuran	0.010	mg/L C UU	0.010 mg/L C UU
Diethyl phthalate	0.010	mg/L C UU	0.010 mg/L C UU
Dimethyl phthalate	0.010	mg/L C UU	0.010 mg/L C UU
Fluoranthene	0.010	mg/L C UU	0.010 mg/L C UU
Fluorene	0.010	mg/L C UU	0.010 mg/L C UU
Hexachlorobenzene	0.010	mg/L C UU	0.010 mg/L C UU
Hexachlorobutadiene	0.010	mg/L C UU	0.010 mg/L C UU
Hexachlorocyclopentadiene	0.010	mg/L C UU	0.010 mg/L C UU
Hexachloroethane	0.010	mg/L C UU	0.010 mg/L C UU
Indeno(1,2,3-cd)pyrene	0.010	mg/L C UU	0.010 mg/L C UU
Isophorone	0.010	mg/L C UU	0.010 mg/L C UU
N-Nitroso-di-n-propylamine	0.010	mg/L C UU	0.010 mg/L C UU
N-Nitrosodimethylamine	0.010	mg/L C UU	0.010 mg/L C UU
N-Nitrosodiphenylamine	0.010	mg/L C UU	0.010 mg/L C UU
Naphthalene	0.010	mg/L C UU	0.010 mg/L C UU
Nitrobenzene	0.010	mg/L C UU	0.010 mg/L C UU
Pentachlorophenol	0.025	mg/L C UU	0.025 mg/L C UU

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	RINSATE	RINSATE	TRIP BLANK
SAMPLE NUMBER	111501	115399	111294
ASSOCIATED SAMPLES	111492		111289
SAMPLING DATE	05/20/93	05/25/93	04/07/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Phenanthrene	0.010	mg/L C C C	0.010 mg/L C C C
Phenol	0.010	mg/L C C C	0.010 mg/L C C C
Pyrene	0.010	mg/L C C C	0.010 mg/L C C C
Tributyl phosphate	0.010	mg/L C C C	NA
bis(2-Chloroethoxy)methane	0.010	mg/L C C C	0.010 mg/L C C C
bis(2-Chloroethyl)ether	0.010	mg/L C C C	0.010 mg/L C C C
bis(2-Chloroisopropyl) ether	0.010	mg/L C C C	0.010 mg/L C C C
bis(2-Ethylhexyl) phthalate	0.010	mg/L C C C	0.010 mg/L C C C
p-Chloroaniline	0.010	mg/L C C	0.010 mg/L C C
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	0.000	mg/L C C C	0.000 mg/L C C C
4,4'-DDE	0.000	mg/L C C C	0.000 mg/L C C C
4,4'-DDT	0.000	mg/L C C C	0.000 mg/L C C C
Aldrin	0.000	mg/L C C C	0.000 mg/L C C C
Aroclor-1016	0.001	mg/L C C C	0.001 mg/L C C C
Aroclor-1221	0.002	mg/L C C C	0.002 mg/L C C C
Aroclor-1232	0.001	mg/L C C C	0.001 mg/L C C C
Aroclor-1242	0.001	mg/L C C C	0.001 mg/L C C C
Aroclor-1248	0.001	mg/L C C C	0.001 mg/L C C C
Aroclor-1254	0.001	mg/L C C C	0.001 mg/L C C C
Aroclor-1260	0.001	mg/L C C C	0.001 mg/L C C C
Dieldrin	0.000	mg/L C C C	0.000 mg/L C C C
Endosulfan II	0.000	mg/L C C C	0.000 mg/L C C C
Endosulfan sulfate	0.000	mg/L C C C	0.000 mg/L C C C
Endosulfan-I	0.000	mg/L C C C	0.000 mg/L C C C
Endrin	0.000	mg/L C C C	0.000 mg/L C C C
Endrin aldehyde	0.000	mg/L C C C	0.000 mg/L C C C
Endrin ketone	0.000	mg/L C C C	0.000 mg/L C C C
Heptachlor	0.000	mg/L C C C	0.000 mg/L C C C
Heptachlor epoxide	0.000	mg/L C C C	0.000 mg/L C C C
Methoxychlor	0.001	mg/L C C C	0.001 mg/L C C C
Toxaphene	0.005	mg/L C C C	0.005 mg/L C C C
alpha-BHC	0.000	mg/L C C C	0.000 mg/L C C C
alpha-Chlordane	0.000	mg/L C C C	0.000 mg/L C C C
beta-BHC	0.000	mg/L C C C	0.000 mg/L C C C
delta-BHC	0.000	mg/L C C C	0.000 mg/L C C C
gamma-BHC (Lindane)	0.000	mg/L C C	0.000 mg/L C C
gamma-Chlordane	0.000	mg/L C C	0.000 mg/L C C

TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	111295				111296				111299			
ASSOCIATED SAMPLES	111291				111293, 111297				111298, 111300			
SAMPLING DATE	04/06/93				04/01/93				04/01/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.006	mg/L	C	U	0.005	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	TRIP BLANK 111302 111301, 111303 04/01/93	RESULTS UNITS L VQ	TRIP BLANK 111305 111304 04/02/93	RESULTS UNITS L VQ	TRIP BLANK 111308 111307, 111309 04/02/93	RESULTS UNITS L VQ
Volatile Organics						
1,1,1-Trichloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
1,1,2,2-Tetrachloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
1,1,2-Trichloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
1,1-Dichloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
1,1-Dichloroethene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
1,2-Dichloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
1,2-Dichloroethene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
1,2-Dichloropropane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
2-Butanone	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
2-Hexanone	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
4-Methyl-2-pentanone	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Acetone	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Benzene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Bromodichloromethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Bromoform	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Bromomethane	0.010 mg/L C UJ		0.010 mg/L C UJ		0.010 mg/L C U	
Carbon Tetrachloride	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Carbon disulfide	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Chlorobenzene	0.010 mg/L C J		0.010 mg/L C J		0.010 mg/L C U	
Chloroethane	0.006 mg/L C J		0.004 mg/L C J		0.004 mg/L C U	
Chloroform	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Chloromethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Dibromochloromethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Ethylbenzene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Methylene chloride	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Styrene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Tetrachloroethene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Toluene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Trichloroethene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Vinyl Acetate	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Vinyl chloride	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
Xylenes, Total	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
cis-1,3-Dichloropropene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	
trans-1,3-Dichloropropene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U	

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0451

TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	111311	111326	111330
ASSOCIATED SAMPLES	111310, 111312	111325	111328
SAMPLING DATE	04/02/93	04/06/93	04/08/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	0.010	mg/L	C U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C U
1,1,2-Trichloroethane	0.010	mg/L	C U
1,1-Dichloroethane	0.010	mg/L	C U
1,1-Dichloroethene	0.010	mg/L	C U
1,2-Dichloroethane	0.010	mg/L	C U
1,2-Dichloroethene	0.010	mg/L	C U
1,2-Dichloropropane	0.010	mg/L	C U
2-Butanone	0.010	mg/L	C U
2-Hexanone	0.010	mg/L	C U
4-Methyl-2-pentanone	0.010	mg/L	C U
Acetone	0.010	mg/L	C U
Benzene	0.010	mg/L	C U
Bromodichloromethane	0.010	mg/L	C U
Bromoform	0.010	mg/L	C U
Bromomethane	0.010	mg/L	C U
Carbon Tetrachloride	0.010	mg/L	C U
Carbon disulfide	0.010	mg/L	C U
Chlorobenzene	0.010	mg/L	C U
Chloroethane	0.004	mg/L	C U
Chloroform	0.010	mg/L	C U
Chloromethane	0.010	mg/L	C U
Dibromochloromethane	0.010	mg/L	C U
Ethylbenzene	0.010	mg/L	C U
Methylene chloride	0.010	mg/L	C U
Styrene	0.010	mg/L	C U
Tetrachloroethene	0.010	mg/L	C U
Toluene	0.010	mg/L	C U
Trichloroethene	0.010	mg/L	C U
Vinyl Acetate	0.010	mg/L	C U
Vinyl chloride	0.010	mg/L	C U
Xylenes, Total	0.010	mg/L	C U
cis-1,3-Dichloropropene	0.010	mg/L	C U
trans-1,3-Dichloropropene	0.010	mg/L	C U

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0452

TABLE C-17
(Continued)

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PHASE II - CHEMICAL PARAMETERS

QA TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	111333				111449				111460			
ASSOCIATED SAMPLES	111331				111441, 111448				111458, 111452, 111454			
SAMPLING DATE	04/08/93				04/27/93				04/30/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,1,2-Trichloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,1-Dichloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,1-Dichloroethene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,2-Dichloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,2-Dichloroethene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,2-Dichloropropane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
2-Butanone	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
2-Hexanone	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
4-Methyl-2-pentanone	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Acetone	0.001	mg/L			0.003	mg/L			0.010	mg/L		
Benzene	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Bromodichloromethane	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Bromoform	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Bromomethane	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Carbon Tetrachloride	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Carbon disulfide	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Chlorobenzene	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Chloroethane	0.005	mg/L			0.010	mg/L			0.010	mg/L		
Chloroform	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Chloromethane	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Dibromochloromethane	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Ethylbenzene	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Methylene chloride	0.010	mg/L			0.010	mg/L			0.007	mg/L		
Styrene	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Tetrachloroethene	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Toluene	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Trichloroethene	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Vinyl Acetate	0.010	mg/L			0.010	mg/L			NA	0.010	mg/L	C
Vinyl chloride	0.010	mg/L			0.010	mg/L			0.010	mg/L		
Xylenes, Total	0.010	mg/L			0.010	mg/L			0.010	mg/L		
cis-1,3-Dichloropropene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
trans-1,3-Dichloropropene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C

TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	TRIP BLANK 111473 111464, 111466, 111471, 111468 05/01/93	RESULTS UNITS L VQ	TRIP/FIELD 111479 111476, 111477 05/03/93	RESULTS UNITS L VQ	TRIP BLANK 111483 111480, 111482 05/05/93
CHEMICAL PARAMETERS					
Volatile Organics					
1,1,1-Trichloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
1,1,2,2-Tetrachloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
1,1,2-Trichloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
1,1-Dichloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
1,1-Dichloroethene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
1,2-Dichloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
1,2-Dichloroethene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
1,2-Dichloropropane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
2-Butanone	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
2-Hexanone	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
4-Methyl-2-pentanone	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Acetone	0.010 mg/L C R		0.017 mg/L C U		0.010 mg/L C U
Benzene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Bromodichloromethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Bromoform	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Bromomethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Carbon Tetrachloride	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Carbon disulfide	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Chlorobenzene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Chloroethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Chloroform	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Chloromethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Dibromochloromethane	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Ethylbenzene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Methylene chloride	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Styrene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Tetrachloroethene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Toluene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Trichloroethene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Vinyl Acetate	NA		NA		0.010 mg/L C U
Vinyl chloride	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
Xylenes, Total	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
cis-1,3-Dichloropropene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U
trans-1,3-Dichloropropene	0.010 mg/L C U		0.010 mg/L C U		0.010 mg/L C U

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	111493				111537				111539			
ASSOCIATED SAMPLES	111492				111536				111540			
SAMPLING DATE	04/19/93				05/01/93				04/22/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,1,2-Trichloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,1-Dichloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,1-Dichloroethene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,2-Dichloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,2-Dichloroethene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
1,2-Dichloropropane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
2-Butanone	0.010	mg/L	C	C	0.010	mg/L	C	C	0.004	mg/L	C	C
2-Hexanone	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
4-Methyl-2-pentanone	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Acetone	0.063	mg/L	C	C	0.014	mg/L	C	C	0.021	mg/L	C	C
Benzene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Bromodichloromethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Bromoform	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Bromomethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Carbon Tetrachloride	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Carbon disulfide	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Chlorobenzene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Chloroethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Chloroform	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Chloromethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Dibromochloromethane	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Ethylbenzene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Methylene chloride	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Styrene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Tetrachloroethene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Toluene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Trichloroethene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Vinyl Acetate	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Vinyl chloride	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
Xylenes, Total	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
cis-1,3-Dichloropropene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C
trans-1,3-Dichloropropene	0.010	mg/L	C	C	0.010	mg/L	C	C	0.010	mg/L	C	C

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	111542			111545			111556					
ASSOCIATED SAMPLES	111543			111546			111548, 111549					
SAMPLING DATE	04/23/93			04/29/93			05/05/93					
CHEMICAL PARAMETERS												
	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
1,1,2-Trichloroethane	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
1,1-Dichloroethane	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
1,1-Dichloroethene	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
1,2-Dichloroethane	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
1,2-Dichloroethene	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
1,2-Dichloropropane	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
2-Butanone	0.004	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
2-Hexanone	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
4-Methyl-2-pentanone	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Acetone	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.004	mg/L	C	RR
Benzene	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Bromodichloromethane	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Bromoform	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Bromomethane	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Carbon Tetrachloride	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Carbon disulfide	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Chlorobenzene	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Chloroethane	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Chloroform	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Chloromethane	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Dibromochloromethane	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Ethylbenzene	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Methylene chloride	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Styrene	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Tetrachloroethene	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Toluene	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Trichloroethene	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Vinyl Acetate	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Vinyl chloride	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC	0.010	mg/L	C	CCC
Xylenes, Total	0.010	mg/L	C	UU	0.010	mg/L	C	UU	0.010	mg/L	C	UU
cis-1,3-Dichloropropene	0.010	mg/L	C	UU	0.010	mg/L	C	UU	0.010	mg/L	C	UU
trans-1,3-Dichloropropene	0.010	mg/L	C	UU	0.010	mg/L	C	UU	0.010	mg/L	C	UU

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TABLE C-17
(Continued)

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PHASE II - CHEMICAL PARAMETERS

QA TYPE	TRIP BLANK			TRIP BLANK			TRIP/FIELD					
SAMPLE NUMBER	111557			114778			115318					
ASSOCIATED SAMPLES	111552, 111553			114776			111484, 111487, 111486					
SAMPLING DATE	05/05/93			06/07/93			05/06/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics												
1,1,1-Trichloroethane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
1,1,2,2-Tetrachloroethane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
1,1,2-Trichloroethane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
1,1-Dichloroethane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
1,1-Dichloroethene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
1,2-Dichloroethane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
1,2-Dichloroethene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
1,2-Dichloropropane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
2-Butanone	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
2-Hexanone	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
4-Methyl-2-pentanone	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Acetone	0.004	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Benzene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Bromodichloromethane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Bromoform	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Bromomethane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Carbon Tetrachloride	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Carbon disulfide	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Chlorobenzene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Chloroethane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Chloroform	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Chloromethane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Dibromochloromethane	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Ethylbenzene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Methylene chloride	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Styrene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Tetrachloroethene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Toluene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Trichloroethene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Vinyl Acetate	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Vinyl chloride	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
Xylenes, Total	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
cis-1,3-Dichloropropene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	
trans-1,3-Dichloropropene	0.010	mg/L			0.010	mg/L	C		0.010	mg/L	C	

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	115338				115352				115360			
ASSOCIATED SAMPLES	115335, 115333, 115334				115350, 115351, 115353				115357, 115358, 115359			
SAMPLING DATE	05/10/93				05/12/93				05/13/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.001	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.004	mg/L	C	R	0.010	mg/L	C	U	0.010	mg/L	C	R
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	R	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	115366			115373			115379					
ASSOCIATED SAMPLES	115362, 115363, 115365			115474			115376, 115377					
SAMPLING DATE	05/14/93			05/15/93			05/16/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS			
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.002	mg/L	C	U	0.003	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.002	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.008	mg/L	C	U	0.007	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.012	mg/L	C	U	0.011	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	115383	115394	115470
ASSOCIATED SAMPLES	115380	115392, 115393	115468, 115471, 115472
SAMPLING DATE	05/17/93	05/20/93	05/15/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
Volatile Organics			
1,1,1-Trichloroethane	0.010	mg/L	C U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C U
1,1,2-Trichloroethane	0.010	mg/L	C U
1,1-Dichloroethane	0.010	mg/L	C U
1,1-Dichloroethene	0.010	mg/L	C U
1,2-Dichloroethane	0.010	mg/L	C U
1,2-Dichloroethene	0.010	mg/L	C U
1,2-Dichloropropane	0.010	mg/L	C U
2-Butanone	0.010	mg/L	C U
2-Hexanone	0.010	mg/L	C U
4-Methyl-2-pentanone	0.010	mg/L	C U
Acetone	0.010	mg/L	C U
Benzene	0.010	mg/L	C U
Bromodichloromethane	0.010	mg/L	C U
Bromoform	0.010	mg/L	C U
Bromomethane	0.010	mg/L	C U
Carbon Tetrachloride	0.010	mg/L	C U
Carbon disulfide	0.010	mg/L	C U
Chlorobenzene	0.010	mg/L	C U
Chloroethane	0.010	mg/L	C U
Chloroform	0.010	mg/L	C U
Chloromethane	0.010	mg/L	C U
Dibromochloromethane	0.010	mg/L	C U
Ethylbenzene	0.010	mg/L	C U
Methylene chloride	0.010	mg/L	C U
Styrene	0.010	mg/L	C U
Tetrachloroethene	0.010	mg/L	C U
Toluene	0.010	mg/L	C U
Trichloroethene	0.010	mg/L	C U
Vinyl Acetate	0.010	mg/L	C U
Vinyl chloride	0.010	mg/L	C U
Xylenes, Total	0.010	mg/L	C U
cis-1,3-Dichloropropene	0.010	mg/L	C U
trans-1,3-Dichloropropene	0.010	mg/L	C U

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	TRIP BLANK			TRIP BLANK			TRIP BLANK		
	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>									
1,1,1-Trichloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,1,2-Trichloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,1-Dichloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,1-Dichloroethene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,2-Dichloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,2-Dichloroethene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,2-Dichloropropane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
2-Butanone	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
2-Hexanone	0.010	mg/L	C U	0.010	mg/L	C U	0.001	mg/L	C U
4-Methyl-2-pentanone	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Acetone	0.002	mg/L	C U	0.007	mg/L	C U	0.010	mg/L	C U
Benzene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Bromodichloromethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Bromoform	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Bromomethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Carbon Tetrachloride	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Carbon disulfide	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Chlorobenzene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Chloroethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Chloroform	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Chloromethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Dibromochloromethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Ethylbenzene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Methylene chloride	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Styrene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Tetrachloroethene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Toluene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Trichloroethene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Vinyl Acetate	0.010	mg/L	C U	0.010	mg/L	C U	NA	mg/L	C U
Vinyl chloride	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Xylenes, Total	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
cis-1,3-Dichloropropene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
trans-1,3-Dichloropropene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U

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TABLE C-17
(Continued)

PHASE II - CHEMICAL PARAMETERS

QA TYPE	TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	115323				115477			
ASSOCIATED SAMPLES	115319, 115321, 115320				111572, 111574			
SAMPLING DATE	05/06/93				05/19/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics								
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE C-18
SOLID WASTE LANDFILL
ON-SITE LABORATORY SCREENING RESULTS
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SURFACE WATER SCREENING SAMPLES

Location	Sample No.	Description	Date Collected	Total Uranium ($\mu\text{g/L}$)
SWL-SW-01	111290	Surface Water	4/7/93	51
SWL-SW-02	111292	Surface Water	4/6/93	60
1947	111651	Surface Water at Well	4/28/93	70

GROUNDWATER SCREENING SAMPLES (NOT FILTERED)

Location	Sample No.	Description	Sample Interval (ft.) ^a	Date Collected	Total Uranium ($\mu\text{g/L}$)
1035	111554	Existing Monitoring Well	NA ^b	5/5/93	2.3
1035	111555	Existing Monitoring Well	NA	5/5/93	2.3
1038	111550	Existing Monitoring Well	NA	5/5/93	5.0
1038	111551	Existing Monitoring Well	NA	5/5/93	4.7
1947	111650	New Monitoring Well	NA	4/28/93	10
1947	120488	New Monitoring Well	NA	7/28/93	11
1950	115485	New Monitoring Well	NA	6/8/93	21
1952	115469	New Monitoring Well	NA	5/15/93	23
1985	111439	Water from Boring	4.0-8.0	4/27/93	4900
2027	111544	Existing Monitoring Well	NA	4/23/93	11
2037	111541	Existing Monitoring Well	NA	4/22/93	4.6
2052	111547	Existing Monitoring Well	NA	4/29/93	4.7
2947	111573	Duplicate of 115474	NA	5/19/93	0.5
2947	115474	Existing Monitoring Well	NA	5/19/93	0.5
2949	111490	New Monitoring Well	NA	4/17/93	0.4
2951	111538	New Monitoring Well	NA	5/1/93	0.8
2953	115490	New Monitoring Well	NA	6/23/93	1.1
11037	115374	Water from Boring	21.0-22.0	5/15/93	1000
11039	115388	Water from Boring	8.0-10.0	5/19/93	650
11040	115398	Water from Boring	25.0-30.0	5/20/93	50

See footnotes at end of table

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TABLE C-18
(Continued)

SEDIMENT SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft.)	% of Total Sample Weight	Date Collected	Total Uranium (mg/kg)
FINE FRACTION (< 200 MESH SIEVE SIZE)					
SWL-SD01	111495	0.0-0.5	7.22	4/20/93	14
SWL-SD01	111496	0.0-0.5	6.69	4/20/93	63
SWL-SD01	111497	0.0-0.5	6.70	4/20/93	24
SWL-SD01	111498	0.0-0.5	4.76	4/20/93	44
COARSE FRACTION (> 200 MESH SIEVE SIZE)					
SWL-SD01	111495	0.0-0.5	92.78	4/20/93	<11
SWL-SD01	111496	0.0-0.5	93.31	4/20/93	56
SWL-SD01	111497	0.0-0.5	93.30	4/20/93	28
SWL-SD01	111498	0.0-0.5	95.24	4/20/93	35
TOTAL SAMPLE - CALCULATED					
SWL-SD01	111495	0.0-0.5	NA	4/20/93	<11
SWL-SD01	111496	0.0-0.5	NA	4/20/93	56
SWL-SD01	111497	0.0-0.5	NA	4/20/93	28
SWL-SD01	111498	0.0-0.5	NA	4/20/93	35

SUBSURFACE SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft.)	Date Collected	Total Uranium (mg/kg)	Total Thorium (mg/kg)
1947	111647	19.0-20.5	4/26/93	<11	NA
1947	111649	8.0-10.0	4/26/93	<11	NA
1950	111685	4.0-6.0	5/5/93	<11	NA
1950	115272	10.0-12.0	5/5/93	<11	NA
1952	111676	6.0-8.0	4/30/93	<11	NA
1952	111677	14.0-16.0	4/30/93	<11	NA
1986	111450	2.5-5.0	4/28/93	1280	15.5
2947	111384	60.0-78.0	4/13/93	<11	NA
2949	111193	4.0-6.0	3/26/93	<11	<18
2949	111206	14.0-16.0	3/26/93	<11	<18
2951	111431	58.0-73.0	4/17/93	<11	NA
2951	111433	0.0-5.1	4/21/93	<11	NA
2953	115460	60.0-75.0	5/27/93	<11	<18

ALPHA/BETA SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft.)	Date Collected	Alpha Activity (pCi/g)	Beta Activity (pCi/g)
1986	111450	2.5-5.0	4/28/93	4700	3000
1990	115367	6.0-9.0	5/10/93	130	200

^aThe sample interval is depth, in feet, below the ground surface^bNA = Not Applicable

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TABLE C-19A
SOLID WASTE LANDFILL
FEMP LABORATORY SCREENING DATA RESULTS
ACTIVITY CONCENTRATIONS OF CIS PROFILE SAMPLES
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty Value (pCi/g)
BOREHOLE 49-01				
0 - 1	Radium-226		1.80	.40
0 - 1	Thorium-232		1.00	.60
0 - 1	Uranium-238		18.20	3.60
1 - 2	Radium-226	< ^b	.60	NA ^c
1 - 2	Thorium-232		.70	.50
1 - 2	Uranium-238		6.70	3.50
2 - 4	Radium-226		.80	.50
2 - 4	Thorium-232	<	5.30	NA
2 - 4	Uranium-238		6.10	3.90
4 - 6	Radium-226		4.60	.70
4 - 6	Thorium-232		1.90	.70
4 - 6	Uranium-238		35.10	5.80
6 - 7	Radium-226	<	1.50	NA
6 - 7	Thorium-232	<	2.20	NA
6 - 7	Uranium-238		9.30	4.00
7 - 8	Radium-226		.60	.20
7 - 8	Thorium-232	<	.30	NA
7 - 8	Uranium-238	<	7.30	NA
10 - 12	Radium-226	<	1.00	NA
10 - 12	Thorium-232		1.20	.50
10 - 12	Uranium-238	<	6.10	NA
12 - 13	Radium-226	<	.60	NA
12 - 13	Thorium-232		1.00	.60
12 - 13	Uranium-238		8.10	5.60
13 - 14	Radium-226		.90	.40
13 - 14	Thorium-232	<	2.60	NA
13 - 14	Uranium-238	<	11.30	NA
14 - 16	Radium-226	<	1.00	NA
14 - 16	Thorium-232		.80	.60
14 - 16	Uranium-238	<	15.50	NA
16 - 17	Radium-226		.90	.30
16 - 17	Thorium-232	<	.30	NA
16 - 17	Uranium-238	<	5.00	NA

See footnotes at end of table

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TABLE C-19A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty Value (pCi/g)
BOREHOLE 49-01 (Continued)				
17 - 18	Radium-226		.90	.40
17 - 18	Thorium-232		.70	.30
17 - 18	Uranium-238	<	10.50	NA
BOREHOLE 49-02				
0 - 1	Radium-226	<	.90	NA
0 - 1	Thorium-232		2.00	.60
0 - 1	Uranium-238		15.40	3.60
1 - 2	Radium-226	<	1.10	NA
1 - 2	Thorium-232		1.00	.50
1 - 2	Uranium-238		4.90	2.60
2 - 3	Radium-226		.70	.50
2 - 3	Thorium-232		1.30	.50
2 - 3	Uranium-238		7.10	2.60
3 - 4	Radium-226		.70	.30
3 - 4	Thorium-232	<	4.70	NA
3 - 4	Uranium-238	<	9.60	NA
4 - 5	Radium-226		.70	.60
4 - 5	Thorium-232	<	3.20	NA
4 - 5	Uranium-238		3.50	2.40
5 - 6	Radium-226		.60	.30
5 - 6	Thorium-232	<	.30	NA
5 - 6	Uranium-238	<	9.20	NA
6 - 8	Radium-226		.90	.40
6 - 8	Thorium-232		1.00	.50
6 - 8	Uranium-238		5.30	2.60
8 - 9	Radium-226		.90	.50
8 - 9	Thorium-232		1.00	.40
8 - 9	Uranium-238	<	12.70	NA
9 - 10	Radium-226		.70	.50
9 - 10	Thorium-232		1.10	.50
9 - 10	Uranium-238	<	12.60	NA
10 - 11	Radium-226		1.10	.40
10 - 11	Thorium-232		1.00	.60
10 - 11	Uranium-238	<	8.30	NA
11 - 12	Radium-226		1.40	.50
11 - 12	Thorium-232		1.60	.60
11 - 12	Uranium-238		4.30	2.40

See footnotes at end of table

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TABLE C-19A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty Value (pCi/g)
BOREHOLE 49-03				
0 - 2	Radium-226	<	.20	NA
0 - 2	Thorium-232		2.40	.80
0 - 2	Uranium-238		19.30	7.50
2 - 4	Radium-226	<	.70	NA
2 - 4	Thorium-232		1.20	.50
2 - 4	Uranium-238		6.10	3.10
4 - 5	Radium-226		.70	.40
4 - 5	Thorium-232	<	3.50	NA
4 - 5	Uranium-238		4.40	3.80
5 - 6	Radium-226		1.00	.40
5 - 6	Thorium-232		1.30	.40
5 - 6	Uranium-238		13.70	4.00
6 - 8	Radium-226	<	5.20	NA
6 - 8	Thorium-232		79.70	4.00
6 - 8	Uranium-238		338.00	226.00
8 - 10	Radium-226	<	1.90	NA
8 - 10	Thorium-232		17.10	2.90
8 - 10	Uranium-238		146.00	16.00
10 - 12	Radium-226	<	2.00	NA
10 - 12	Thorium-232		12.80	1.50
10 - 12	Uranium-238		198.00	16.00
12 - 13	Radium-226	<	1.40	NA
12 - 13	Thorium-232		3.10	.90
12 - 13	Uranium-238		48.90	7.10
13 - 14	Radium-226	<	1.70	NA
13 - 14	Thorium-232	<	.40	NA
13 - 14	Uranium-238		9.20	2.80
14 - 15	Radium-226	<	.80	NA
14 - 15	Thorium-232		.60	.40
14 - 15	Uranium-238	<	7.00	NA
15 - 16	Radium-226		.80	.40
15 - 16	Thorium-232		1.10	.50
15 - 16	Uranium-232		6.30	2.60
BOREHOLE 49-04				
0 - 2	Radium-226			
0 - 2	Thorium-232	<		
0 - 2	Uranium-238	<		
2 - 3	Radium-226		1.00	.50

See footnotes at end of table

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TABLE C-19A
 (Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty Value (pCi/g)
BOREHOLE 49-04 (continued)				
2 - 3	Thorium-232	<	.30	NA
2 - 3	Uranium-238	<	10.30	NA
3 - 4	Radium-226		.90	.40
3 - 4	Thorium-232		1.00	.50
3 - 4	Uranium-238	<	9.30	NA
4 - 5	Radium-226	<	1.50	NA
4 - 5	Thorium-232	<	.30	NA
4 - 5	Uranium-238	<	4.70	NA
5 - 6	Radium-226		1.10	.60
5 - 6	Thorium-232		1.00	.50
5 - 6	Uranium-238	<	8.60	NA
6 - 8	Radium-226	<	.70	NA
6 - 8	Thorium-232	<	.30	NA
6 - 8	Uranium-238	<	5.30	NA
BOREHOLE 49-05				
0 - 2	Radium-226		.80	.50
0 - 2	Thorium-232		1.60	.40
0 - 2	Uranium-238		5.90	2.40
2 - 3	Radium-226		.70	.50
2 - 3	Thorium-232		1.20	.50
2 - 3	Uranium-238		9.40	2.70
3 - 4	Radium-226		.50	NA
3 - 4	Thorium-232	<	2.30	NA
3 - 4	Uranium-238	<	4.20	2.10
4 - 5	Radium-226		.60	.40
4 - 5	Thorium-232		1.10	.70
4 - 5	Uranium-238		14.80	3.50
5 - 6	Radium-226		.70	.50
5 - 6	Thorium-232		.80	.30
5 - 6	Uranium-238	<	7.70	NA
6 - 7	Radium-226	<	.10	NA
6 - 7	Thorium-232		1.20	.30
6 - 7	Uranium-238		8.10	NA
7 - 8	Radium-226	<	.90	NA
7 - 8	Thorium-232		1.40	NA
7 - 8	Uranium-238		10.60	NA
8 - 9	Radium-226		.90	.30
8 - 9	Thorium-232		.30	NA

See footnotes at end of table

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TABLE C-19A
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty Value (pCi/g)
BOREHOLE 49-05 (Continued)				
8 - 9	Uranium-238		9.80	NA
9 - 10	Radium-226	<	.40	.30
9 - 10	Thorium-232	<	1.30	.40
9 - 10	Uranium-238		3.90	NA
10 - 11	Radium-226		.60	.40
10 - 11	Thorium-232		.80	.30
10 - 11	Uranium-238	<	3.20	2.60
11 - 12	Radium-226		.60	.40
11 - 12	Thorium-232		.60	.40
11 - 12	Uranium-232	<	10.40	NA
13 - 14	Radium-226	<	1.80	NA
13 - 14	Thorium-232	<	1.40	NA
13 - 14	Uranium-232		11.30	2.00
BOREHOLE 49-06				
0 - 1	Radium-226	<	1.60	na
0 - 1	Thorium-232		1.00	.40
0 - 1	Uranium-238		13.90	4.80
1 - 2	Radium-226	<	2.50	NA
1 - 2	Thorium-232		1.20	.80
1 - 2	Uranium-238		8.80	4.80
4 - 6	Radium-226	<	1.80	NA
4 - 6	Thorium-232		.80	.50
4 - 6	Uranium-238		8.20	3.70
6 - 7	Radium-226		.70	.40
6 - 7	Thorium-232	<	4.30	NA
6 - 7	Uranium-238		7.50	NA
7 - 8	Radium-226		.80	.40
7 - 8	Thorium-232		1.20	.60
7 - 8	Uranium-238	<	8.30	NA
10 - 11	Radium-226	<	2.80	NA
10 - 11	Thorium-232	<	4.10	NA
10 - 11	Uranium-238	<	8.10	NA
11 - 12	Radium-226	<	.20	NA
11 - 12	Thorium-232		1.10	.60
11 - 12	Uranium-238	<	13.20	NA
12 - 13	Radium-226	<	.90	NA
12 - 13	Thorium-232		.70	.40
12 - 13	Uranium-238		3.80	2.00

See footnotes at end of table

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TABLE C-19A
 (Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty Value (pCi/g)
BOREHOLE 49-06 (continued)				
13 - 14	Radium-226		.60	.40
13 - 14	Thorium-232		.80	.40
13 - 14	Uranium-238	<	6.60	NA
14 - 15	Radium-226		.80	.40
14 - 15	Thorium-232	<	6.00	NA
14 - 15	Uranium-238		3.30	2.70
15 - 16	Radium-226	<	1.30	NA
15 - 16	Thorium-232		3.20	NA
15 - 16	Uranium-238	<	5.70	NA
16 - 17	Radium-226	<	.80	NA
16 - 17	Thorium-232	<	.40	NA
16 - 17	Uranium-238	<	16.10	NA
17 - 18	Radium-226		.80	.50
17 - 18	Thorium-232		.40	NA
17 - 18	Uranium-238	<	12.30	NA

^aLaboratory Qualifiers, no data validation was performed on screening data.

^b< = Less than

^cNA = Not applicable

TABLE C-19B

SOLID WASTE LANDFILL
CIS SURFACE SOIL ON-SITE ANALYTICAL DATA
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qualifier ^a
FMP-SL-46-238	09-MAR-87	0.5/1	Cesium-137	1.2	NA ^b	< ^c
			Potassium-40	9.5	3.6	
			Radium-226	0.7	0.5	
			Ruthenium-106	3.7	NA	<
			Thorium-232	2.5	NA	<
			Uranium-238	99.7	8.5	
FMP-SL-46-265	17-MAR-87	0.5/1	Cesium-137	1.4	0.5	
			Potassium-40	1	NA	<
			Radium-226	1.7	0.7	
			Ruthenium-106	8.2	NA	<
			Thorium-232	3.8	0.7	
			Uranium-238	99.6	10	
FMP-SL-46-266	17-MAR-87	1/1.5	Cesium-137	0.9	0.6	
			Potassium-40	1	NA	<
			Radium-226	2.3	0.6	
			Ruthenium-106	7	NA	<
			Thorium-232	4.4	1.4	
			Uranium-238	107	10	
FMP-SS-46-078	02-FEB-87	0/0.5	Cesium-137	0.3	0.2	
			Potassium-40	10.6	1.7	
			Radium-226	1	0.2	
			Ruthenium-106	8	NA	<
			Thorium-232	0.8	0.3	
			Uranium-238	7.6	2.8	
FMP-SS-46-079	02-FEB-87	0/0.5	Cesium-137	0.5	NA	<
			Potassium-40	10	3.4	
			Radium-226	0.6	0.3	
			Ruthenium-106	8	NA	<
			Thorium-232	1.5	0.6	
			Uranium-238	4.6	3	

See footnotes at end of table

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FEMP-OU02-4 DRAFT
February 18, 1994

TABLE C-19B
(Continued)

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qualifier ^a
FMP-SS-46-080	02-FEB-87	0/0.5	Cesium-137	0.5	NA	<
			Potassium-40	6.9	NA	<
			Radium-226	0.5	NA	<
			Ruthenium-106	4.4	NA	<
			Thorium-232	2	0.4	
			Uranium-238	13.5	2.8	
FMP-SS-46-081	02-FEB-87	0/0.5	Cesium-137	0.8	NA	<
			Potassium-40	8.1	0.3	
			Radium-226	0.9	0.3	
			Ruthenium-106	2.5	NA	<
			Thorium-232	1.7	0.7	
			Uranium-238	9.4	3	
FMP-SS-46-081D	02-FEB-87	0/0.5	Cesium-137	0.9	NA	<
			Potassium-40	6.2	NA	<
			Radium-226	0.6	0.2	
			Ruthenium-106	3.1	NA	<
			Thorium-232	1.4	0.6	
			Uranium-238	10.1	2.9	
FMP-SS-46-082	02-FEB-87	0/0.5	Cesium-137	0.5	0.4	
			Potassium-40	11.5	NA	<
			Radium-226	1.7	0.3	
			Ruthenium-106	2.2	NA	<
			Thorium-232	2.2	0.9	
			Uranium-238	37.8	5	
FMP-SS-46-083	02-FEB-87	0/0.5	Cesium-137	0.9	NA	<
			Potassium-40	8.8	NA	<
			Radium-226	0.9	0.3	
			Ruthenium-106	5	NA	<
			Thorium-232	0.9	0.4	
			Uranium-238	12.2	2.6	

See footnotes at end of table

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TABLE C-19B
(Continued)

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qualifier ^a
FMP-SS-46-084	02-FEB-87	0/0.5	Cesium-137	0.5	NA	<
			Potassium-40	14.3	NA	<
			Radium-226	0.5	0.3	
			Ruthenium-106	4.4	NA	<
			Thorium-232	0.9	0.3	
			Uranium-238	8.7	2.8	
FMP-SS-46-085	02-FEB-87	0/0.5	Cesium-137	0.9	NA	<
			Potassium-40	8.2	3	
			Radium-226	0.9	0.4	
			Ruthenium-106	3.8	NA	<
			Thorium-232	1.1	0.5	
			Uranium-238	85.1	8	
FMP-SS-46-086	02-FEB-87	0/0.5	Cesium-137	0.5	NA	<
			Potassium-40	12.5	3.3	
			Radium-226	0.4	NA	<
			Ruthenium-106	0.5	NA	<
			Thorium-232	0.8	0.3	
			Uranium-238	5.6	2.7	
FMP-SS-46-124	10-FEB-87	0/0.5	Cesium-137	0.4	NA	<
			Potassium-40	5.6	2.4	
			Radium-226	0.8	0.3	
			Ruthenium-106	9.5	NA	<
			Thorium-232	1.5	0.4	
			Uranium-238	28	5	
FMP-SS-46-125	10-FEB-87	0/0.5	Cesium-137	0.8	NA	<
			Potassium-40	5.7	5	
			Radium-226	0.6	0.3	
			Ruthenium-106	9.8	NA	<
			Thorium-232	1.8	0.9	
			Uranium-238	10.2	3.4	

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FEMP-OU02-4 DRAFT
February 18, 1994TABLE C-19B
(Continued)

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qualifier ^a
FMP-SS-46-217	26-FEB-87	0/0.16	Cesium-137	0.4	NA	<
			Potassium-40	10.1	3.9	
			Radium-226	0.7	0.1	
			Ruthenium-106	19.6	NA	<
			Thorium-232	1.5	0.5	
			Uranium-238	30.1	5	
FMP-SS-46-352	16-APR-87	0/0.16	Cesium-137	0.3	0.2	
			Potassium-40	9.3	3	
			Radium-226	0.9	0.3	
			Ruthenium-106	5.7	NA	<
			Thorium-232	0.7	0.6	
			Uranium-238	12.1	3.5	

^aLaboratory qualifiers, data not validated^bNA = Not applicable^c< = Less than

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TABLE C-19C

**SOLID WASTE LANDFILL
SEDIMENT ON-SITE ANALYTICAL DATA
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Lab. Qualifier ^a
FMP-SD-21-007	19-MAY-87	0/1	Cesium-137	0.1	NA ^b	< ^c
			Potassium-40	4.2	2.4	
			Radium-226	0.7	0.2	
			Ruthenium-106	4.3	NA	<
			Thorium-232	0.6	0.3	
			Uranium-238	4.2	2.5	
FMP-SD-21-008	19-MAY-87	0/0.75	Cesium-137	0.1	NA	<
			Potassium-40	6.9	3	
			Radium-226	0.9	NA	<
			Ruthenium-106	0.6	NA	<
			Thorium-232	0.7	0.5	
			Uranium-238	6.3	2.6	
FMP-SD-21-009	19-MAY-87	0/0.75	Cesium-137	0.7	NA	<
			Potassium-40	7.4	3	
			Radium-226	0.8	0.3	
			Ruthenium-106	4.4	NA	<
			Thorium-232	1.8	NA	<
			Uranium-238	6.8	3.1	

^aLaboratory qualifiers, data not validated^bNA = Not applicable^c< = Less than

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FEMP-OU02-4 DRAFT
February 18, 1994

TABLE C-19D
SOLID WASTE LANDFILL
CIS FIDLER SURFACE READINGS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482077.84	1379560.38	5603.00
482084.09	1379560.50	5296.00
482090.34	1379560.63	6167.00
482096.56	1379560.88	9199.00
482102.81	1379561.00	9037.00
482152.81	1379562.38	12125.00
482177.78	1379563.13	15626.00
482184.03	1379563.25	14706.00
482190.28	1379563.38	15322.00
482196.53	1379563.63	8956.00
482202.78	1379563.75	16043.00
482202.78	1379563.75	14461.00
482227.78	1379564.50	12766.00
482234.03	1379564.63	11882.00
482240.28	1379564.75	9601.00
482246.53	1379565.00	12821.00
482252.78	1379565.13	11653.00
482252.78	1379565.13	10910.00
482259.03	1379565.25	8311.00
482265.25	1379565.50	10831.00
482271.50	1379565.63	9231.00
482277.75	1379565.75	8800.00
482284.00	1379566.00	7557.00
482290.25	1379566.13	7445.00
482296.50	1379566.38	10234.00
482077.66	1379566.63	5495.00
482083.91	1379566.75	5577.00

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TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482090.16	1379566.88	7595.00
482096.41	1379567.13	9376.00
482102.66	1379567.25	13101.00
482352.72	1379567.88	7011.00
482402.72	1379569.25	6359.00
482177.63	1379569.38	17544.00
482183.88	1379569.50	22901.00
482190.13	1379569.63	16608.00
482196.38	1379569.88	20001.00
482202.63	1379570.00	17080.00
482452.69	1379570.63	11295.00
482227.59	1379570.75	15385.00
482233.84	1379570.88	11905.00
482240.09	1379571.00	13678.00
482252.59	1379571.38	13762.00
482258.84	1379571.50	13334.00
482265.09	1379571.75	12196.00
482271.34	1379571.88	12606.00
482277.59	1379572.00	14495.00
482502.69	1379572.00	5597.00
482283.84	1379572.25	13762.00
482290.09	1379572.38	13637.00
482296.34	1379572.63	13044.00
482077.50	1379572.88	6180.00
482302.59	1379572.75	11812.00
482077.50	1379572.88	6180.00
482083.75	1379573.00	5241.00
482090.00	1379573.13	8119.00
482096.25	1379573.38	9434.00

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FEMP-OU02-4 DRAFT
February 18, 1994TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482102.47	1379573.50	11071.00
482177.47	1379575.63	19355.00
482183.69	1379575.75	15707.00
482189.94	1379575.88	25001.00
482196.19	1379576.13	21277.00
482202.44	1379576.25	24897.00
482227.44	1379577.00	14963.00
482233.69	1379577.13	14926.00
482239.94	1379577.25	19119.00
482246.19	1379577.50	13899.00
482252.44	1379577.63	13637.00
482258.69	1379577.75	12932.00
482264.91	1379578.00	15385.00
482271.16	1379578.13	14493.00
482277.41	1379578.25	15790.00
482283.66	1379578.50	13223.00
482289.91	1379578.63	13393.00
482296.16	1379578.88	13709.00
482077.31	1379579.13	5353.00
482083.56	1379579.25	4980.00
482089.81	1379579.38	6061.00
482096.06	1379579.63	10518.00
482102.31	1379579.75	12850.00
482177.28	1379581.88	18592.00
482183.53	1379582.00	22399.00
482189.78	1379582.13	21005.00
482196.03	1379582.38	19878.00
482202.28	1379582.50	18364.00
482227.25	1379583.13	14399.00

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TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482233.50	1379583.38	18819.00
482252.25	1379583.88	12146.00
482258.50	1379584.00	14852.00
482264.75	1379584.25	15076.00
482271.00	1379584.38	15707.00
482277.25	1379584.50	15076.00
482283.50	1379584.75	16217.00
482289.75	1379584.88	13334.00
482070.91	1379585.13	8311.00
482296.00	1379585.13	12992.00
482077.16	1379585.38	4769.00
482083.41	1379585.50	5195.00
482089.66	1379585.63	8041.00
482095.91	1379585.88	12749.00
482102.16	1379586.00	11939.00
482177.13	1379588.13	18634.00
482183.38	1379588.25	17658.00
482189.59	1379588.38	12968.00
482195.84	1379588.63	16539.00
482202.09	1379588.75	20834.00
482227.09	1379589.38	15916.00
482252.09	1379590.13	11674.00
482258.34	1379590.25	11451.00
482264.59	1379590.50	14229.00
482270.81	1379590.63	13275.00
482277.06	1379590.75	21286.00
482283.31	1379591.00	13764.00
482289.56	1379591.13	14229.00
482070.72	1379591.38	9662.00

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February 18, 1994

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482295.81	1379591.38	13827.00
482076.97	1379591.63	5297.00
482083.22	1379591.75	5026.00
482089.47	1379591.88	7895.00
482314.56	1379591.88	13514.00
482320.81	1379592.00	13168.00
482095.72	1379592.13	10318.00
482327.06	1379592.13	12669.00
482101.97	1379592.25	13136.00
482276.91	1379597.00	13334.00
482283.16	1379597.25	14852.00
482289.41	1379597.38	14229.00
482076.81	1379597.88	4766.00
482083.06	1379598.00	5416.00
482089.31	1379598.13	8735.00
482095.56	1379598.38	14899.00
482101.81	1379598.50	14963.00
482276.72	1379603.25	13454.00
482070.38	1379603.88	8108.00
482076.63	1379604.13	5055.00
482082.88	1379604.25	4658.00
482089.13	1379604.38	7443.00
482095.38	1379604.63	22535.00
482101.63	1379604.75	20558.00
482276.56	1379609.50	9203.00
482070.22	1379610.13	8979.00
482076.47	1379610.38	5546.00
482082.72	1379610.50	4816.00
482088.97	1379610.63	8558.00

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482095.22	1379610.88	29127.00
482101.47	1379611.00	32978.00
482101.47	1379611.00	32315.00
482107.72	1379611.13	30548.00
482113.94	1379611.38	26559.00
482120.19	1379611.50	20271.00
482126.44	1379611.75	25863.00
482151.44	1379612.38	17646.00
482151.41	1379612.38	16746.00
482157.69	1379612.50	19032.00
482163.94	1379612.75	16216.00
482170.19	1379612.88	12203.00
482176.44	1379613.00	11729.00
482201.41	1379613.75	12235.00
482226.41	1379614.38	12321.00
482232.66	1379614.63	11868.00
482238.91	1379614.75	12553.00
482276.41	1379615.75	9902.00
482070.06	1379616.38	9585.00
482076.28	1379616.63	5566.00
482082.53	1379616.75	5111.00
482088.78	1379616.88	9524.00
482095.03	1379617.13	32978.00
482101.28	1379617.25	32975.00
482107.53	1379617.38	28205.00
482113.78	1379617.63	52556.00
482120.03	1379617.75	19737.00
482126.28	1379617.88	20980.00
482151.28	1379618.63	19991.00

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February 18, 1994

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482157.50	1379618.75	17965.00
482163.75	1379619.00	11495.00
482170.00	1379619.13	9317.00
482176.25	1379619.25	10990.00
482226.25	1379620.63	13899.00
482232.50	1379620.88	13762.00
482238.72	1379621.00	12001.00
482076.13	1379622.88	5475.00
482082.38	1379623.00	4425.00
482088.63	1379623.13	7482.00
482094.88	1379623.38	32619.00
482101.13	1379623.50	36233.00
482107.38	1379623.63	25001.00
482113.63	1379623.88	19787.00
482119.84	1379624.00	18615.00
482126.09	1379624.13	20500.00
482151.09	1379624.88	20690.00
482157.34	1379625.00	23256.00
482163.59	1379625.25	12351.00
482169.84	1379625.38	10715.00
482176.09	1379625.50	10411.00
482226.06	1379626.88	14789.00
482232.31	1379627.13	12766.00
482238.56	1379627.25	11453.00
482075.94	1379629.13	5139.00
482082.19	1379629.25	4849.00
482088.44	1379629.38	9376.00
482094.69	1379629.63	23448.00
482100.94	1379629.75	37051.00

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482107.19	1379629.88	18889.00
482113.44	1379630.13	21353.00
482119.69	1379630.25	16394.00
482125.94	1379630.38	26683.00
482150.94	1379631.13	22432.00
482157.19	1379631.25	44128.00
482163.41	1379631.50	12680.00
482169.66	1379631.63	12064.00
482175.91	1379631.75	13275.00
482088.28	1379635.63	10205.00
482094.53	1379635.88	22849.00
482100.78	1379636.00	30613.00
482107.03	1379636.13	28300.00
482113.28	1379636.38	35715.00
482119.53	1379636.50	21002.00
482125.75	1379636.63	18998.00
482150.75	1379637.38	12001.00
482157.00	1379637.50	12766.00
482163.25	1379637.75	17965.00
482169.50	1379637.88	15303.00
482175.75	1379638.00	16217.00
482225.72	1379639.38	15439.00
482231.97	1379639.63	13825.00
462238.22	1379639.75	15626.00
482075.63	1379641.50	5085.00
482081.84	1379641.75	4889.00
482088.09	1379641.88	10170.00
482094.34	1379642.13	17807.00
482100.59	1379642.25	28302.00

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TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482106.84	1379642.38	29412.00
482113.09	1379642.63	28572.00
482119.34	1379642.75	26591.00
482125.59	1379642.88	69770.00
482075.44	1379647.75	4681.00
482081.69	1379648.00	4992.00
482087.94	1379648.13	9647.00
482094.19	1379648.38	16394.00
482100.44	1379648.50	25211.00
482106.69	1379648.63	22223.00
482112.94	1379648.88	20137.00
482119.19	1379649.00	29125.00
482125.41	1379649.13	23448.00
482075.28	1379654.00	4598.00
482081.53	1379654.25	5227.00
482087.75	1379654.38	11195.00
482094.00	1379654.63	14852.00
482100.25	1379654.75	17462.00
482106.50	1379654.88	20135.00
482112.75	1379655.13	19351.00
482119.00	1379655.25	45455.00
482125.25	1379655.38	16761.00
482075.09	1379660.25	5577.00
482081.34	1379660.50	4452.00
482087.59	1379660.63	9790.00
482093.84	1379660.88	13637.00
482100.09	1379661.00	17390.00
482100.09	1379661.00	18692.00
482106.34	1379661.13	2056.00

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482112.59	1379661.38	18073.00
482118.84	1379661.50	47620.00
482125.09	1379661.63	11253.00
482131.31	1379661.88	9647.00
482137.56	1379662.00	8597.00
482143.81	1379662.13	9555.00
482150.06	1379662.38	10222.00
482150.06	1379662.38	11236.00
482156.31	1379662.50	9804.00
482162.56	1379662.75	16636.00
482168.81	1379662.88	20851.00
482175.06	1379663.00	14424.00
482200.06	1379663.75	11451.00
482200.06	1379663.75	10866.00
482206.31	1379663.88	10685.00
482212.53	1379664.13	11306.00
482218.78	1379664.25	10896.00
482225.03	1379664.38	10792.00
482250.03	1379665.13	10941.00
482275.03	1379665.75	13709.00
482099.91	1379667.25	21908.00
482106.16	1379667.38	17442.00
482112.41	1379667.63	16575.00
482118.66	1379667.75	17544.00
482124.91	1379667.88	10495.00
482131.16	1379668.13	12712.00
482137.41	1379668.25	17868.00
482143.66	1379668.38	16484.00
482149.91	1379668.63	15464.00

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TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482156.16	1379668.75	12146.00
482162.41	1379669.00	17330.00
482168.66	1379669.13	19607.00
482174.88	1379669.25	17658.00
482199.88	1379670.00	10990.00
482206.13	1379670.13	11765.00
482212.38	1379670.38	12553.00
482218.63	1379670.50	11300.00
482224.88	1379670.63	13899.00
482449.97	1379670.63	11562.00
482074.75	1379672.75	5127.00
482099.75	1379673.50	20774.00
482106.00	1379673.63	17042.00
482112.25	1379673.88	15239.00
482118.50	1379074.00	13393.00
482124.75	1379674.13	10310.00
482131.00	1379674.38	11236.00
482137.22	1379674.50	19231.00
482143.47	1379674.63	28847.00
482149.72	1379674.88	20690.00
482155.97	1379675.00	19481.00
482162.22	1379675.25	17818.00
482168.47	1379675.38	18405.00
482174.72	1379675.50	20008.00
482199.72	1379676.25	12459.00
482205.97	1379676.38	13393.00
482212.22	1379676.50	15874.00
482218.44	1379676.75	14609.00
482224.69	1379676.88	13725.00

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TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482074.59	1379679.00	4943.00
482099.56	1379679.75	16395.00
482105.81	1379679.88	16760.00
482112.06	1379680.13	12146.00
482118.31	1379680.25	13275.00
482124.56	1379680.38	23448.00
482130.81	1379680.63	12606.00
482137.06	1379680.75	14852.00
482143.31	1379680.88	10078.00
482149.56	1379681.13	14286.00
482155.81	1379681.25	17544.00
482162.06	1379681.50	25977.00
482168.31	1379681.63	17485.00
482174.56	1379681.75	20280.00
482199.53	1379682.50	21421.00
482205.78	1379682.63	14424.00
482212.03	1379682.75	17721.00
482218.28	1379683.00	17143.00
482224.53	1379683.13	15286.00
482074.41	1379685.25	5259.00
482080.66	1379685.50	4526.00
482086.91	1379685.63	25211.00
482093.16	1379685.75	17547.00
482099.41	1379686.00	18294.00
482105.66	1379686.13	19481.00
482111.91	1379686.38	14424.00
482118.16	1379686.50	18010.00
482124.41	1379686.63	11633.00
482130.66	1379686.88	11868.00

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TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482136.91	1379687.00	10792.00
482143.13	1379687.13	10468.00
482149.38	1379687.38	15152.00
482155.63	1379687.50	17868.00
482161.88	1379687.75	19951.00
482168.13	1379687.88	21164.00
482174.38	1379688.00	18182.00
482180.63	1379688.25	20271.00
482186.88	1379688.38	15968.00
482193.13	1379688.50	13958.00
482199.38	1379688.75	15347.00
482205.63	1379688.88	16950.00
482211.88	1379689.00	18073.00
482218.13	1379689.25	16217.00
482224.34	1379689.38	15790.00
482249.34	1379690.13	12397.00
482074.25	1379691.50	5309.00
482080.50	1379691.75	4717.00
482086.75	1379691.88	13892.00
482093.00	1379692.00	16854.00
482093.00	1379692.00	16854.00
482099.22	1379692.25	21277.00
482105.47	1379692.38	19355.00
482111.72	1379692.63	20690.00
482117.97	1379692.75	15307.00
482124.22	1379692.88	9710.00
482130.47	1379693.13	10649.00
482136.72	1379693.25	11195.00
482142.97	1379693.38	11301.00

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482149.22	1379693.63	29498.00
482155.47	1379693.75	22065.00
482161.72	1379693.88	21227.00
482167.97	1379694.13	18878.00
482174.22	1379694.25	16667.00
482180.47	1379694.50	18182.00
482186.69	1379694.63	15626.00
482192.94	1379694.75	14789.00
482199.19	1379695.00	15521.00
482205.44	1379695.13	11195.00
482211.69	1379695.25	17442.00
482217.94	1379695.50	15001.00
482224.19	1379695.63	13606.00
482230.44	1379695.88	12821.00
482236.69	1379696.00	14424.00
482242.94	1379696.13	10417.00
482249.19	1379696.38	11236.00
482074.06	1379696.75	5182.00
482080.31	1379698.00	5191.00
482086.56	1379698.13	17965.00
482092.81	1379698.25	18361.00
482099.06	1379698.50	21583.00
482105.31	1379698.63	33718.00
482111.56	1379698.88	16305.00
482117.81	1379699.00	14424.00
482124.06	1379699.13	11071.00
482130.31	1379699.38	10959.00
482136.56	1379699.50	11812.00
482142.78	1379699.63	16523.00

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TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482149.03	1379699.88	15707.00
482155.28	1379700.00	23268.00
482161.53	1379700.13	20834.00
482167.78	1379700.38	20980.00
482174.03	1379700.50	16760.00
482180.28	1379700.75	14151.00
482186.53	1379700.88	15076.00
482192.78	1379701.00	12876.00
482199.03	1379701.25	14260.00
482205.28	1379701.38	14575.00
482211.53	1379701.50	14564.00
482217.78	1379701.75	21986.00
482224.03	1379701.88	21741.00
482230.25	1379702.13	13454.00
482236.50	1379702.25	14062.00
482242.75	1379702.38	11495.00
482249.00	1379702.63	10910.00
482073.91	1379704.00	5494.00
482080.16	1379704.25	5292.00
482086.41	1379704.38	16667.00
482092.66	1379704.50	17442.00
482098.91	1379704.75	22399.00
482105.13	1379704.88	18293.00
482111.38	1379705.13	15790.00
482117.63	1379705.25	17868.00
482123.88	1379705.38	12712.00
482130.13	1379705.63	11674.00
482136.38	1379705.75	14557.00
482142.63	1379705.88	14355.00

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482148.88	1379706.13	24001.00
482155.13	1379706.25	23256.00
482161.38	1379706.38	22069.00
482167.63	1379706.63	44145.00
482173.88	1379706.75	19231.00
482180.13	1379707.00	15310.00
482186.34	1379707.13	16131.00
482192.59	1379707.25	19140.00
482198.84	1379707.50	15759.00
482205.09	1379707.63	15473.00
482211.34	1379707.75	15312.00
482217.59	1379708.00	21439.00
482223.84	1379708.13	20464.00
482230.09	1379708.25	14228.00
482236.34	1379708.50	15509.00
482242.59	1379708.63	11765.00
482248.84	1379708.88	13762.00
482073.72	1379710.25	5530.00
482079.97	1379710.50	4367.00
482086.22	1379710.63	13709.00
482092.47	1379710.75	17392.00
482098.72	1379711.00	90910.00
482098.72	1379711.00	89127.00
482104.97	1379711.13	16394.00
482111.22	1379711.25	16484.00
482117.47	1379711.50	16130.00
482123.72	1379711.63	15037.00
482129.97	1379711.88	18073.00
482136.22	1379712.00	19119.00

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(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482142.47	1379712.13	18692.00
482148.69	1379712.38	27035.00
482148.69	1379712.38	31589.00
482154.94	1379712.50	24608.00
482161.19	1379712.63	26387.00
482167.44	1379712.88	44777.00
482173.69	1379713.00	15707.00
482179.94	1379713.25	17343.00
482186.19	1379713.38	14091.00
482192.44	1379713.50	15874.00
482198.69	1379713.75	13794.00
482198.69	1379713.75	14844.00
482204.94	1379713.88	17911.00
482211.19	1379714.00	15662.00
482217.44	1379714.25	21740.00
482223.69	1379714.38	17242.00
482229.91	1379714.50	19119.00
482236.16	1379714.75	11729.00
482242.41	1379714.88	16084.00
482248.66	1379715.13	12876.00
482248.66	1379715.13	12876.00
482073.56	1379716.50	4927.00
482298.66	1379716.50	11785.00
482073.88	1379722.75	5546.00
482079.81	1379716.75	4550.00
482086.06	1379716.88	14029.00
482092.31	1379717.00	18462.00
482098.56	1379717.25	17242.00
482104.81	1379717.38	19934.00

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482111.03	1379717.50	18073.00
482117.28	1379717.75	16217.00
482123.53	1379717.88	18462.00
482129.78	1379718.13	17008.00
482136.03	1379718.25	16055.00
482142.28	1379718.38	24194.00
482148.53	1379718.63	22568.00
482154.78	1379718.75	19879.00
482161.03	1379718.88	32009.00
482167.28	1379719.13	25975.00
482173.53	1379719.25	21277.00
482198.50	1379720.00	17008.00
482204.75	1379720.13	18462.00
482211.00	1379720.25	15968.00
482217.25	1379720.50	11977.00
482223.50	1379720.63	19672.00
482229.75	1379720.75	15874.00
482236.00	1379721.00	17046.00
482242.25	1379721.13	13334.00
482248.50	1379721.38	12858.00
482079.63	1379723.00	4725.00
472085.88	1379723.13	13393.00
472092.13	1379723.25	19481.00
472098.38	1379723.50	15585.00
482104.63	1379723.63	18634.00
482110.88	1379723.75	16217.00
472117.18	1379724.00	18938.00
482123.38	1379724.13	17868.00
482129.63	1379724.38	20135.00

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TABLE C-19D
(Continued)

State Planer Coordinates		Reading (CPM)
North (ft)	East (ft)	
482135.88	1379724.50	15998.00
482142.13	1379724.63	25975.00
482148.38	1379724.88	18879.00
482154.59	1379725.00	24838.00
482160.00	1379725.13	21740.00
482167.09	1379725.38	17242.00
482173.34	1379725.50	14963.00
482198.34	1379726.25	14252.00
482204.59	1379726.38	13709.00
482210.84	1379726.50	15267.00
482214.09	1379726.75	24897.00
482223.34	1379726.88	18878.00
482229.59	1379727.00	12059.00
482235.81	1379727.25	13709.00
482242.06	1379727.38	24603.00
482248.31	1379727.63	14493.00
482073.22	1379729.00	5883.00
482079.47	1379729.25	4692.00
482085.72	1379729.38	13606.00
482091.97	1379729.50	14609.00
482098.22	1379729.75	156968.00
482104.47	1379729.88	15346.00
482110.72	1379730.00	19170.00
482116.94	13797930.25	16902.00
482123.19	1379730.38	18182.00
482129.44	1379730.63	17442.00
482135.69	1379730.75	25001.00
482141.94	1379730.88	23530.00
482148.19	1379731.13	18750.00

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482154.44	1379731.25	21479.00
482160.69	1379731.38	14609.00
482166.94	1379731.63	15626.00
482173.19	1379731.75	12749.00
482198.16	1379732.50	22305.00
482204.41	1379732.63	19672.00
482210.66	1379732.75	17752.00
482216.91	1379733.00	16305.00
482223.16	1379733.13	15832.00
482229.41	1379733.25	13709.00
482235.66	1379733.50	10990.00
482241.91	1379733.63	11300.00
482248.16	1379733.88	14128.00
482073.03	1379735.25	5241.00
482079.28	1379735.50	4744.00
482085.53	1379735.63	14029.00
482091.78	1379735.75	15916.00
482104.28	1379736.13	15666.00
482110.53	1379736.25	16760.00
482116.78	1379736.50	17868.00
482123.03	1379736.63	18462.00
482129.28	1379736.88	18998.00
482135.53	1379737.00	20762.00
482141.78	1379737.13	36810.00
482148.03	1379737.38	19058.00
482154.28	1379737.50	14052.00
482160.50	1379737.63	18751.00
481247.66	1379737.75	33497.00
482166.75	1379737.88	17658.00

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TABLE C-19D
(Continued)

State Planer Coordinates		Reading (CPM)
North (ft)	East (ft)	
482173.00	1379738.00	15707.00
482198.00	1379738.75	21202.00
482204.25	1379738.88	20340.00
482210.50	1379739.00	16902.00
482216.75	1379739.25	15152.00
482223.00	1379739.38	15114.00
482229.25	1379739.50	11871.00
482235.50	1379739.75	12266.00
482241.72	1379739.88	14963.00
482247.97	1379740.13	11651.00
482297.97	1379741.38	11364.00
482072.88	1379741.50	5786.00
482079.13	1379741.75	4684.00
482085.38	1379741.88	11765.00
482091.63	1379742.00	15585.00
482097.88	1379742.25	14424.00
482104.13	1379742.38	16394.00
482110.38	1379742.50	17292.00
482116.59	1379742.75	19934.00
482122.84	1379742.88	17046.00
482129.09	1379743.00	17342.00
482135.34	1379743.25	20690.00
482141.59	1379743.38	23167.00
482147.84	1379743.63	12296.00
482154.09	1379743.75	16305.00
482160.34	1379743.88	21353.00
482166.59	1379744.13	23448.00
482172.84	1379744.25	25001.00
482297.78	1379747.63	11905.00

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482072.72	1379747.75	5737.00
482078.94	1379748.00	5051.00
482085.19	1379748.13	11517.00
482091.44	1379748.25	11905.00
482097.69	1379748.50	14185.00
482103.94	1379748.63	15464.00
482110.19	1379748.75	18073.00
482116.44	1379749.00	19878.00
482122.69	1379749.13	33509.00
482128.94	1379749.25	18674.00
482135.19	1379749.50	16950.00
482141.44	1379749.63	21353.00
482147.69	1379749.88	14741.00
482153.94	1379750.00	22140.00
482160.16	1379750.13	22141.00
482166.41	1379750.38	20135.00
482172.66	1379750.50	31915.00
482297.63	1379753.88	12245.00
482072.53	1379754.00	5764.00
482078.78	1379754.25	5204.00
482085.03	1379754.38	11729.00
482091.28	1379754.50	13216.00
482097.53	1379754.75	13166.00
482103.78	1379754.88	15707.00
482110.03	1379755.00	19934.00
482116.28	1379755.25	19293.00
482122.50	1379755.38	15707.00
482128.75	1379755.50	13899.00
482135.00	1379755.75	20762.00

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482141.25	1379755.88	16621.00
482147.50	1379756.13	17190.00
482153.75	1379756.25	26432.00
482160.00	1379756.38	15790.00
482166.25	1379756.63	17803.00
482172.50	1379756.75	17868.00
482297.44	1379760.13	13453.00
482072.38	1379760.25	4193.00
482078.63	1379760.38	4370.00
482084.84	1379760.63	11859.00
482091.09	1379760.75	14424.00
482097.34	1379761.00	12074.00
482097.34	1379761.00	13544.00
482103.59	1379761.13	16173.00
482109.84	1379761.25	17242.00
482116.09	1379761.50	17292.00
482122.34	1379761.63	15968.00
482128.59	1379761.75	16629.00
482134.84	1379762.00	16621.00
482141.09	1379762.13	17143.00
482147.34	1379762.38	16069.00
482147.34	1379762.38	17805.00
482147.34	1379762.38	16130.00
482153.59	1379762.50	15580.00
482159.84	1379762.63	17485.00
482166.06	1379762.88	14382.00
482172.31	1379763.00	15790.00
482197.31	1379763.63	14292.00
482247.28	1379765.00	11646.00

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482297.28	1379766.38	12766.00
482297.28	1379766.38	12016.00
482072.19	1379766.50	4773.00
482078.44	1379766.63	4992.00
482084.69	1379766.88	11451.00
482090.94	1379767.00	24391.00
482097.19	1379767.25	20135.00
482103.44	1379767.38	23810.00
482109.69	1379767.50	26786.00
482115.94	1379767.75	18182.00
482122.19	1379767.88	14706.00
482128.41	1379768.00	16667.00
482134.66	1379768.25	21201.00
482140.91	1379768.38	16449.00
482147.16	1379768.63	15916.00
482072.03	1379772.75	4333.00
482078.28	1379772.88	5910.00
482084.50	1379773.13	10456.00
482090.75	1379773.25	32269.00
482097.00	1379773.50	32787.00
482103.25	1379773.63	37048.00
482109.50	1379773.75	25652.00
482115.75	1379774.00	17342.00
482122.00	1379774.13	15832.00
482128.25	1379774.25	18405.00
482134.50	1379774.50	18692.00
482140.75	1379774.63	18019.00
482147.00	1379774.88	17095.00
482071.84	1379779.00	5001.00

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TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482078.09	1379779.13	6189.00
482084.34	1379779.38	8597.00
482090.59	1379779.50	15545.00
482096.84	1379779.75	33710.00
482103.09	1379779.88	24492.00
482109.34	1379780.00	18462.00
482115.59	1379780.25	26667.00
482121.84	1379780.38	15307.00
482128.09	1379780.50	15545.00
482134.31	1379780.75	18209.00
482140.56	1379780.88	28719.00
482146.81	1379781.00	16449.00
482071.69	1379785.25	5510.00
482077.94	1379785.38	5178.00
482084.19	1379785.63	14926.00
482090.41	1379785.75	17965.00
482096.66	1379786.00	34286.00
482102.91	1379786.13	26432.00
482109.16	1379786.25	22399.00
482115.41	1379786.50	17008.00
482121.66	1379786.63	178342.00
482127.91	1379786.75	15001.00
482134.16	1379787.00	17911.00
482140.41	1379787.13	11765.00
482146.66	1379787.25	11091.00
482221.63	1379789.38	14945.00
482227.88	1379789.50	14564.00
482234.13	1379789.75	13825.00
482240.38	1379789.88	17647.00 0500

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482246.63	1379790.00	15968.00
482071.50	1379791.50	15790.00
482077.75	1379791.63	7076.00
482084.00	1379791.88	11473.00
482090.25	1379792.00	15076.00
482096.50	1379792.25	18634.00
482102.75	1379792.38	32978.00
482109.00	1379792.50	21583.00
482121.50	1379792.88	15907.00
482115.25	1379792.75	19231.00
482127.75	1379793.00	63830.00
482133.97	1379793.25	16173.00
482140.22	1379793.38	11451.00
482146.47	1379793.50	10870.00
482221.44	1379795.63	14714.00
482227.69	1379795.75	18751.00
482233.94	1379796.00	17965.00
482240.19	1379796.13	14456.00
482246.44	1379796.25	15076.00
482071.34	1379797.75	15874.00
482077.59	1379797.88	15626.00
482083.84	1379798.13	10381.00
482090.09	1379798.25	12270.00
482096.31	1379798.38	19119.00
482102.56	1379798.63	20629.00
482108.81	1379798.75	18687.00
482115.06	1379799.00	15251.00
482121.31	1379799.13	17752.00
482127.56	1379799.25	14635.00

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TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482133.81	1379799.50	20271.00
482140.06	1379799.63	11195.00
482146.31	1379799.75	12279.00
482221.28	1379801.88	16217.00
482227.53	1379802.00	13423.00
482233.78	1379802.25	16394.00
482240.03	1379802.38	16305.00
482246.28	1379802.50	17493.00
482071.16	1379804.00	20271.00
482077.41	1379804.13	17596.00
482083.66	1379804.38	11289.00
482089.91	1379804.50	10890.00
482096.16	1379804.63	11268.00
482102.41	1379804.88	12876.00
482108.66	1379805.00	17966.00
482114.91	1379805.25	19486.00
482121.16	1379805.38	15425.00
482127.41	1379805.50	17094.00
482133.66	1379805.75	13101.00
482139.88	1379805.88	12196.00
482146.13	1379806.00	13637.00
482221.09	1379808.13	12059.00
482227.34	1379808.25	10079.00
482233.59	1379808.50	9918.00
482239.84	1379808.63	13678.00
482246.09	1379808.75	13101.00
482077.25	1379810.38	16713.00
482083.50	1379810.63	14815.00
482089.75	1379810.75	13730.00

0502

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482096.00	1379810.88	12346.00
482096.00	1379810388	12930.00
482102.22	1379811.13	13954.00
482108.47	1379811.25	14608.00
482114.72	1379811.50	23716.00
482120.97	1379811.63	15874.00
482127.22	1379811.75	19481.00
482133.47	1379812.00	12998.00
482139.72	1379812.13	12749.00
482145.97	1379812.25	12474.00
482145.97	1379812.25	12099.00
482152.22	1379812.50	12833.00
482158.47	1379812.63	12932.00
482164.72	1379812.75	11585.00
482170.97	1379813.00	9928.00
482195.94	1379813.63	10286.00
482220.94	1379814.38	11153.00
482227.19	1379814.50	10249.00
482233.44	1379814.75	9660.00
482239.69	1379814.88	16173.00
482245.94	1379815.00	10640.00
482295.91	1379816.38	12773.00
482245.94	1379815.00	13825.00
482120.81	1379817.88	9977.00
482127.06	1379818.00	10001.00
482133.31	1379818.25	12528.00
482139.56	1379818.38	11517.00
482145.78	1379818.50	12969.00
482152.03	1379818.75	15566.00

0503

TABLE C-19D
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (CPM)
482158.28	1379818.88	12321.00
482164.53	1379819.00	13954.00
482170.78	1379819.25	11674.00

TABLE C-19E

SOLID WASTE LANDFILL
CIS EXPOSURE RATE MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Coordinates		Reading (microR/HR)
North	East	
482097.34	1379761.00	16.00
482097.34	1379761.00	17.40
482202.78	1379563.75	16.02
482197.31	1379763.63	16.59

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TABLE C-19F
SOLID WASTE LANDFILL
CIS BETA GAMMA DOSE RATE MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Coordinates		Reading (microR/HR)
North	East	
482152.81	1379562.38	0.04
482102.81	1379561.00	0.03
482101.47	1379611.00	0.20
482100.09	1379661.00	0.13
482098.72	1379711.00	1.26
482097.34	1379761.00	0.13
482195.94	1379813.63	0.08
482145.97	1379812.25	0.09
482096.00	1379810.88	0.12
482302.75	1379566.50	0.04
482252.78	1379565.13	0.07
482202.78	1379563.75	0.06
482301.38	1379616.50	0.06
482201.41	1379613.75	0.05
482151.44	1379612.38	0.06
482300.00	1379666.50	0.05
482250.03	1379665.13	0.04
482200.06	1379663.75	0.04
482150.06	1379662.38	0.06
482298.66	1379716.50	0.05
482248.66	1379715.13	0.03
482198.69	1379713.75	0.04
482148.69	1379712.38	0.13
482297.28	1379766.38	0.05
482247.28	1379765.00	0.04
482197.31	1379763.63	0.07
482147.34	1379762.38	0.09
482295.91	1379816.38	0.05
482245.94	1379815.00	0.07

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FIGURE C-19A

SOLID WASTE LANDFILL
CIS FIDLER MEASUREMENT CONTOURS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour intervals at 50,000 and 75,000 CPM)

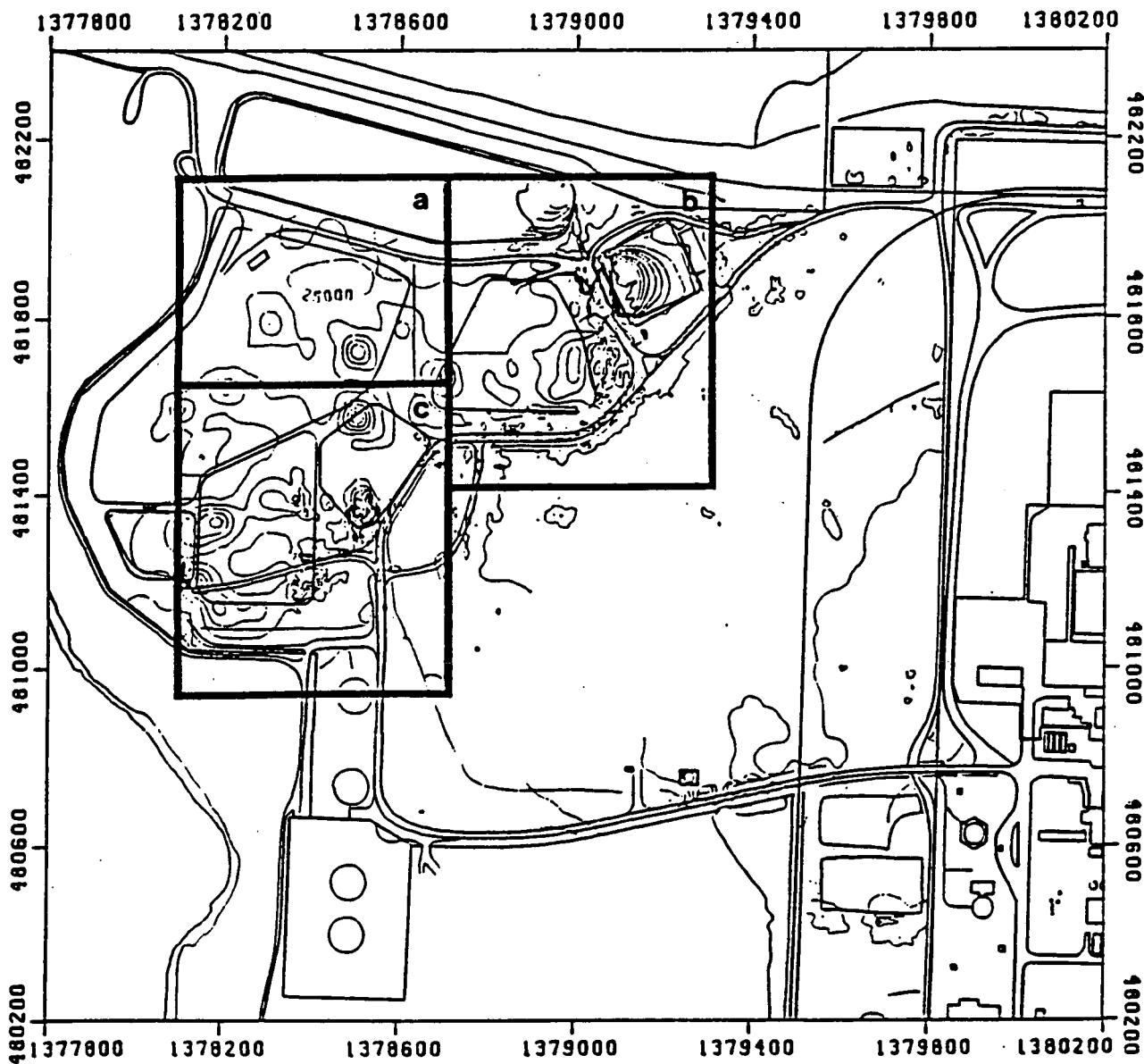
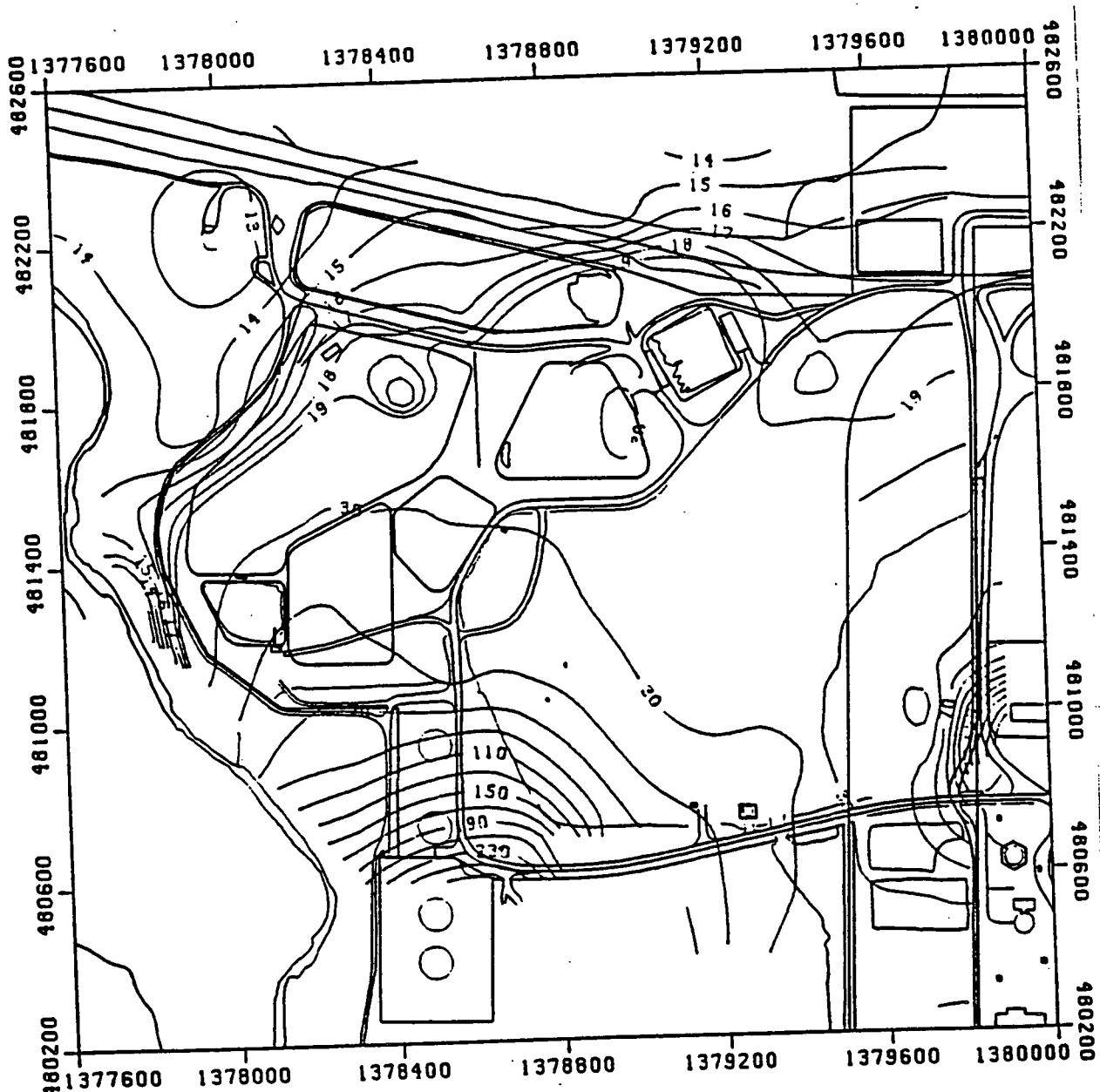


FIGURE C-19B
SOLID WASTE LANDFILL
CIS EXPOSURE RATE CONTOURS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour intervals at 1.0 and 20.0 microR/hr)

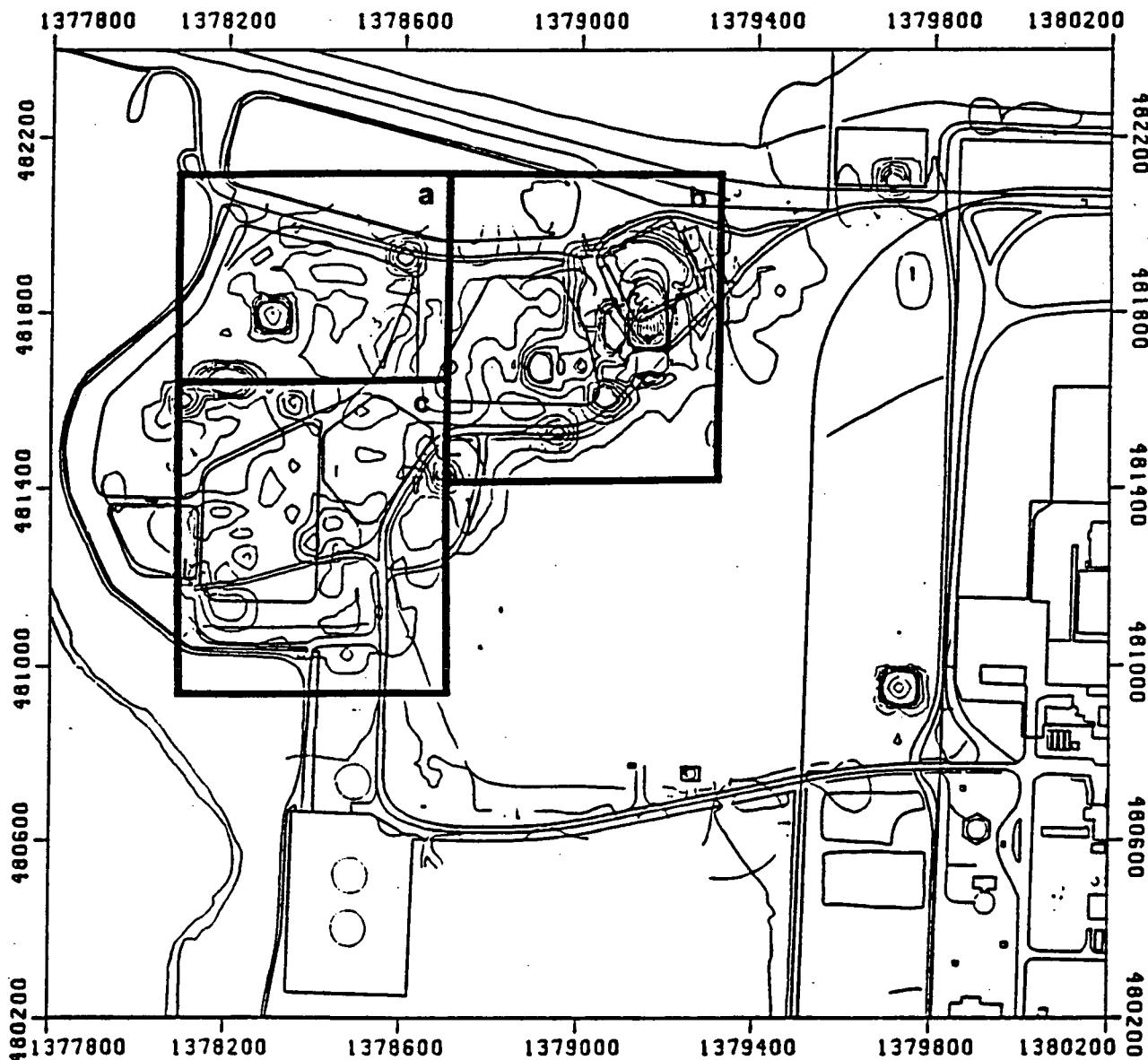


0508

FIGURE C-19C

SOLID WASTE LANDFILL
CIS BETA GAMMA DOSE RATE CONTOURS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour intervals at 0.2, 1.0, and 5.0 mRad/hr)



0509

TABLE C-20A

SOLID WASTE LANDFILL
GEOTECHNICAL ANALYSIS
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SURFACE SAMPLES

Location	Wet Density (pcf) ^a	Dry Density (pcf)	Moisture Content (%)
#9	114.4	106.7	7.2
#10	118.6	107.5	10.3
#11	110.1	102.7	7.2

^apounds per cubic foot

0510

TABLE C-20B
**SOLID WASTE LANDFILL
 GEOTECHNICAL ANALYSIS
 PHASE II FIELD INVESTIGATION
 OPERABLE UNIT 2 REMEDIAL INVESTIGATION
 FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Specific Gravity	Moisture Content (%)	Bulk Density Unit Weight (pcf) ^b	Dry Density (pcf)	Atterberg Limits			Permeability (cm/s) ^c
								Liquid Limit	Plastic Limit	Plasticity Index	
SWL-SS-02	111499	4/19/93	0.0-0.5	- ^d	24.3	-	-	-	-	-	-
1947	111639	5/11/93	6.0-8.0	-	-	125.3	103.4	-	-	-	-
	111640	5/11/93	8.0-10.0	2.7243	26.4	-	-	38	15	23	-
1950	111683	5/11/93	4.0-6.0	2.7464	13.1	-	-	20	14	6	-
	1115270	5/11/93	10.0-12.0	2.7090	12.7	-	-	20	14	6	-
	111682	5/11/93	2.0-4.0	-	-	127.0	105.3	-	-	-	-
	115269	5/11/93	8.0-10.0	-	-	137.1	118.9	-	-	-	-
1952	111658	5/11/93	4.0-6.0	-	-	141.4	123.0	-	-	-	-
	111659	5/11/93	6.0-8.0	2.6513	28	-	-	27	15	12	-
	111670	5/11/93	14.0-16.0	2.7384	12.1	-	-	32	15	17	-
1982	111485	5/11/93	0.0-2.5	2.2921	17.1	-	-	32	15	17	-
1983	111474	5/11/93	5.0-7.0	-	-	130.4	107.9	-	-	-	2.1E ⁻⁸
	111481	5/11/93	17.5-20.0	2.7422	10.5	-	-	20	12	8	-
1984	111462	5/11/93	5.0-7.0	-	-	135.9	118.1	-	-	-	-
	111463	5/11/93	0.0-2.5	2.2350	16.9	-	-	30	16	14	-
	111467	5/11/93	7.5-10.0	2.6310	23.5	-	-	40	21	19	-
1986	111459	4/30/93	12.5-15.0	2.7533	20.0	-	-	27	16	11	-
	111461	4/30/93	15.0-17.0	-	-	139.9	121.5	-	-	-	1.1E ⁻⁷

See footnotes at end of table

TABLE C-20B
(Continued)

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Specific Gravity	Moisture Content (%)	Bulk Density Unit Weight (pcf) ^b	Dry Density (pcf)	Atterberg Limits			Permeability (cm/s) ^c
								Liquid Limit	Plastic Limit	Plasticity Index	
1988	115354	5/12/93	15.0-17.5	2.7347	15.9	-	-	25	15	10	-
	115355	5/12/93	20.0-22.0	-	-	134.0	119.6	-	-	-	-
1989	115364	5/14/93	7.5-10.0	2.7445	14.6	-	-	26	15	11	-
	115368	5/14/93	10.0-12.0	-	-	137.1	121.7	-	-	-	-
1990	115324	5/10/93	3.0-5.0	-	-	130.7	112.5	-	-	-	-
	115325	5/10/93	10.0-12.0	-	-	142.3	123.3	-	-	-	-
	115326	5/10/93	20.0-22.0	-	-	141.2	123.7	-	-	-	3.0E-8
	115327	5/10/93	1.0-3.0	2.7209	8.5	-	-	30	17	13	-
	115330	5/10/93	6.0-9.0	2.7103	17.3	-	-	27	15	12	-
	115332	5/10/93	9.0-10.0	2.7220	21.9	-	-	30	15	15	-
	115336	5/10/93	17.5-20.0	2.7349	9.7	-	-	18	11	7	-
1992	115344	5/11/93	7.5-10.0	2.6979	17.4	-	-	30	15	15	-
	115348	5/11/93	3.0-5.0	-	-	139.4	118.6	-	-	-	-
2949	111194	3/26/93	4.0-6.0	2.7668	18.8	-	-	32	16	16	-
	111194	3/26/93	4.0-6.0	2.7668	18.8	-	-	25	15	10	-
	111207	3/26/93	14.0-16.0	2.7368	13.6	-	-	19	12	7	-

^aThe sample interval is depth, in feet, below the ground surface

^bPounds per cubic foot

^cCentimeters per second

^dSample not analyzed for this parameter

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TABLE C-20C
SOLID WASTE LANDFILL
SIEVE ANALYSIS - ASTM D 422
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Classification ^b	Sieve Analysis (% Passing Sieve No.)											
					3"	1.5"	0.75"	0.375"	#4	#10	#20	#40	#60	#100	#140	#200
SWL-SD-02	111500	4/19/93	0.0-0.5	NAC ^c	100	100	98.7	92.7	82.6	71.8	60.4	49.4	41.1	35.1	32.6	31.0
SWL-SS-02	11499	4/19/93	0.0-0.5	NA	100	100	98.8	97.3	96.5	93.8	88.9	84.7	80.9	77.3	75.5	74.2
1947	111640	5/11/93	8.0-10.0	CL	100	100	100	100	100	99.8	99.6	99.0	98.1	97.0	96.3	95.8
1950	111683	5/11/93	4.0-6.0	CL-ML	100	100	100	100	99.5	98.4	94.6	90.3	86.1	80.7	77.3	74.4
	115270	5/11/93	10.0-12.0	CL-ML	100	100	100	100	99.8	99.3	97.9	95.8	92.9	88.9	85.7	82.5
1952	111659	5/11/93	6.0-8.0	CL	100	100	95.2	91.5	86.7	78.5	73.0	68.3	63.5	57.6	53.9	50.9
	111670	5/11/93	14.0-16.0	CL	100	100	92.7	91.4	90.2	87.2	83.4	79.9	76.9	73.9	72.0	70.5
1982	111485	5/11/93	0.0-2.5	CL	100	100	100	99.1	96.2	93.5	89.3	84.7	81.0	77.1	74.9	73.1
1983	111481	5/11/93	17.5-20.0	CL-ML	100	100	96.5	94.7	91.1	86.3	79.7	73.4	68.3	62.9	59.9	57.5
1984	111463	5/11/93	0.0-2.5	CL	100	100	100	99.5	99.2	98.4	97.1	95.4	93.7	91.8	90.5	89.4
	111467	5/11/93	7.5-10.0	CL	100	100	100	100	99.2	98.2	97.0	94.9	91.5	87.2	84.5	82.3
1986	111459	4/30/93	12.5-15.0	CL	100	100	100	100	100	100	93.8	89.2	85.9	82.2	80.5	79.0
1988	115354	5/12/93	15.0-17.5	CL	100	100	84.1	75.7	68.0	62.9	62.7	62.2	61.4	60.4	59.7	59.0
1989	115364	5/14/93	7.5-10.0	CL	100	100	100	100	98.9	96.9	92.0	87.0	83.3	79.1	77.1	75.4
1990	115330	5/10/93	6.0-9.0	CL	100	81.1	77.3	75.8	72.6	68.8	63.7	60.3	57.6	54.4	52.7	51.2
	115332	5/10/93	9.0-10.0	CL	100	100	98.1	97.2	94.2	91.1	86.7	82.3	78.2	74.4	72.0	70.2
	115336	5/10/93	17.5-20.0	CL-ML	100	100	97.4	93.6	86.6	79.3	71.6	63.5	56.2	49.1	45.6	43.3
1992	115344	5/11/93	7.5-10.0	CL	100	100	100	97.1	92.1	88.0	83.3	78.8	74.8	71.2	69.2	67.7

See footnotes at end of table

TABLE C-20C
(Continued)

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Classification ^b	Sieve Analysis (% Passing Sieve No.)											
					3"	1.5"	0.75"	0.375"	#4	#10	#20	#40	#60	#100	#140	#200
2949	111194	3/26/93	4.0-6.0	CL	100	100	100	100	99.7	98.5	94.8	91.9	88.9	85.3	83.0	81.3
	111194	3/26/93	4.0-6.0	CL	100	100	100	99.9	99.5	98.6	96.0	93.0	89.6	85.6	83.0	80.7
	111207	3/26/93	14.0-16.0	CL-ML	100	100	99.0	99.0	98.3	96.2	92.0	88.3	84.2	78.8	74.9	71.6
	111207	3/26/93	14.0-16.0	NA	100	100	100	100	99.5	98.2	96.5	94.3	91.2	86.7	83.5	80.7

^aThe sample interval is depth, in feet, below the ground surface

^bUnified Soil Classification System

ML = inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity

CL = inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays

^cNA = Not applicable

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TABLE C-20D

SOLID WASTE LANDFILL
HYDROMETER ANALYSIS - ASTM D 422
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

LOCATION: SWL-SD-02 SAMPLE NO.: 111500 DEPTH: 0.0-0.5 ft.

Particle Diameter (mm)	0.06521	0.04747	0.03430	0.02223	0.01312	0.00937	0.00567	0.00468	0.00330	0.00141
Percent Finer	31.5	26.0	21.2	15.8	11.0	8.2	7.5	5.5	4.1	4.1

LOCATION: SWL-SS-02 SAMPLE NO.: 111499 DEPTH: 0.0-0.5 ft.

Particle Diameter (mm)	0.05782	0.04198	0.03014	0.02106	0.01288	0.00921	0.00650	0.00463	0.00326	0.00140
Percent Finer	73.4	67.6	64.7	38.6	21.2	17.4	13.5	11.6	10.6	7.7

LOCATION: 1947 SAMPLE NO.: 111640 DEPTH: 8.0-10.0 ft.

Particle Diameter (mm)	0.02441	0.01646	0.01035	0.00759	0.00558	0.00406	0.00287	0.00126
Percent Finer	84.2	75.5	62.0	53.2	46.1	39.7	35.0	20.7

LOCATION: 1950 SAMPLE NO.: 111683 DEPTH: 4.0-6.0 ft.

Particle Diameter (mm)	0.05628	0.04170	0.03132	0.02219	0.01299	0.00920	0.00652	0.00462	0.00321	0.00139
Percent Finer	74.3	64.3	48.2	12.1	8.0	7.0	6.0	5.0	4.0	4.0

TABLE C-20D
(Continued)

LOCATION: 1950 SAMPLE NO.: 115270 DEPTH: 10.0-12.0 ft.

Particle Diameter (mm)	0.05081	0.03803	0.02948	0.02188	0.01281	0.00912	0.00647	0.00459	0.00319	0.00138
Percent Finer	80.2	70.9	54.0	14.4	10.1	8.4	7.6	6.8	5.1	5.1

LOCATION: 1952 SAMPLE NO.: 111659 DEPTH: 6.0-8.0 ft.

Particle Diameter (mm)	0.05698	0.04212	0.03052	0.02002	0.01245	0.00900	0.00643	0.00458	0.00319	0.00135
Percent Finer	49.4	42.8	38.9	32.3	17.8	13.2	10.5	9.2	7.9	4.0

LOCATION: 1952 SAMPLE NO.: 111670 DEPTH: 14.0-16.0 ft.

Particle Diameter (mm)	0.05441	0.03958	0.02874	0.02066	0.01256	0.00896	0.00638	0.00450	0.00315	0.00133
Percent Finer	70.5	65.4	60.2	31.0	16.3	13.8	12.0	11.2	9.5	5.2

LOCATION: 1982 SAMPLE NO.: 111485 DEPTH: 0.0-2.5 ft.

Particle Diameter (mm)	0.05919	0.04369	0.03197	0.02109	0.01324	0.00971	0.00696	0.00491	0.00347	0.00148
Percent Finer	80.9	73.0	66.8	58.0	35.2	26.4	22.0	19.3	16.7	10.5

LOCATION: 1983 SAMPLE NO.: 111481 DEPTH: 17.5-20.0 ft.

Particle Diameter (mm)	0.05603	0.04121	0.03079	0.02249	0.01326	0.00941	0.00657	0.00466	0.00324	0.00134
Percent Finer	55.7	51.4	42.1	11.4	6.4	5.7	5.7	4.3	3.6	2.1

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TABLE C-20D
(Continued)

LOCATION: 1984 SAMPLE NO.: 111463 DEPTH: 0.0-2.5 ft.

Particle Diameter (mm)	0.05958	0.04358	0.03172	0.02083	0.01276	0.00931	0.00678	0.00491	0.00343	0.00148
Percent Finer	98.0	90.4	84.0	75.4	59.2	49.5	40.9	33.4	30.1	18.3

LOCATION: 1984 SAMPLE NO.: 111467 DEPTH: 7.5-10.0 ft.

Particle Diameter (mm)	0.05708	0.04170	0.03025	0.01970	0.01195	0.00870	0.00627	0.00450	0.00317	0.00141
Percent Finer	79.4	72.3	66.2	59.1	44.8	36.7	30.6	25.5	20.4	14.3

LOCATION: 1986 SAMPLE NO.: 111459 DEPTH: 12.5-15.0 ft.

Particle Diameter (mm)	0.05398	0.04019	0.03177	0.02201	0.01303	0.00929	0.00663	0.00464	0.00320	0.00138
Percent Finer	74.5	64.1	39.8	15.6	8.7	6.1	3.5	2.6	0.9	0.9

LOCATION: 1988 SAMPLE NO.: 115354 DEPTH: 15.0-17.5 ft.

Particle Diameter (mm)	0.05827	0.04271	0.03138	0.02265	0.01321	0.00941	0.00668	0.00468	0.00321	0.00139
Percent Finer	48.9	43.5	36.7	9.5	6.8	5.4	4.1	3.4	2.7	2.7

LOCATION: 1989 SAMPLE NO.: 115364 DEPTH: 7.5-10.0 ft.

Particle Diameter (mm)	0.03825	0.02819	0.02082	0.01284	0.00918	0.00654	0.00455	0.00312	0.00138
Percent Finer	71.5	65.0	32.5	16.2	13.0	11.4	10.6	8.1	6.5

TABLE C-20D
(Continued)

LOCATION: 1990 SAMPLE NO.: 115330 DEPTH: 6.0-9.0 ft.

Particle Diameter (mm)	0.05535	0.04001	0.02889	0.01946	0.01219	0.00880	0.00629	0.00450	0.00316	0.00136
Percent Finer	48.8	45.7	42.5	33.1	18.1	13.8	11.3	9.4	8.8	6.9

LOCATION: 1990 SAMPLE NO.: 115332 DEPTH: 9.0-10.0 ft.

Particle Diameter (mm)	0.05504	0.03979	0.02904	0.01910	0.01193	0.00864	0.00620	0.00444	0.00312	0.00135
Percent Finer	67.9	62.8	56.9	49.2	30.6	23.8	19.5	16.1	15.3	11.0

LOCATION: 1990 SAMPLE NO.: 115336 DEPTH: 17.5-20.0 ft.

Particle Diameter (mm)	0.05984	0.04312	0.03214	0.02250	0.01303	0.00925	0.00656	0.00465	0.00326	0.00139
Percent Finer	42.0	38.5	28.0	5.6	4.2	3.5	2.8	2.1	2.1	2.1

LOCATION: 1992 SAMPLE NO.: 115344 DEPTH: 10.0-12.5 ft.

Particle Diameter (mm)	0.04089	0.02984	0.01990	0.01226	0.00898	0.00639	0.00457	0.00311	0.00134
Percent Finer	64.5	58.4	47.1	31.4	20.9	15.7	13.1	10.5	5.2

LOCATION: 2949 SAMPLE NO.: 111194 DEPTH: 4.0-6.0 ft.

Particle Diameter (mm)	0.05074	0.03666	0.02682	0.01825	0.01220	0.00916	0.00659	0.00458	0.00321	0.00133
Percent Finer	77.8	74.9	70.5	60.2	33.0	19.1	15.4	13.2	10.3	3.7

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TABLE C-20D
(Continued)

LOCATION: 2949 SAMPLE NO.: 111194 DEPTH: 4.0-6.0 ft.

Particle Diameter (mm)	0.05185	0.03718	0.02735	0.01836	0.01246	0.00728	0.00602	0.00460	0.00323	0.00133
Percent Finer	75.7	74.2	68.2	59.3	28.9	13.4	12.6	11.1	8.9	3.7

LOCATION: 2949 SAMPLE NO.: 111207 DEPTH: 14.0-16.0 ft.

Particle Diameter (mm)	0.05531	0.04234	0.03545	0.02398	0.01396	0.00987	0.00683	0.00483	0.00336	0.00135
Percent Finer	67.9	55.5	23.4	6.6	4.4	4.4	3.6	3.6	2.2	2.2

LOCATION: 2949 SAMPLE NO.: 111207 DEPTH: 14.0-16.0 ft.

Particle Diameter (mm)	0.05135	0.03825	0.03138	0.02200	0.01380	0.00971	0.00681	0.00502	0.00341	
Percent Finer	74.7	67.2	41.8	18.7	9.7	6.7	6.7	6.0	4.5	

TABLE C-20E
SOLID WASTE LANDFILL
ONE DIMENSIONAL CONSOLIDATION - ASTM D 2435
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

LOCATION: 1984 SAMPLE NO.: 111462 DEPTH: 2.5-5.0 ft.

Applied Pressure (tsf)	0.13	0.25	0.50	1.00	2.00	4.00	8.00	16.00	8.00	4.00	2.00	1.00	0.25
Void Ratio	0.5406	0.5350	0.5218	0.4999	0.4676	0.4273	0.3835	0.3361	0.3414	0.3484	0.3578	0.3680	0.3915

LOCATION: 1984 SAMPLE NO.: 111463 DEPTH: 0.0-2.5 ft.

Applied Pressure (tsf)	0.13	0.25	0.50	1.00	2.00	4.00	8.00	16.00	8.00	4.00	2.00	1.00	0.25
Void Ratio	0.4261	0.4241	0.4174	0.4046	0.3874	0.3652	0.3381	0.3060	0.3261	0.3312	0.3381	0.3455	0.3634

LOCATION: 1990 SAMPLE NO.: 115326 DEPTH: 20.0-22.0 ft.

Applied Pressure (tsf)	0.13	0.25	0.50	1.00	2.00	4.00	8.00	16.00	8.00	4.00	2.00	1.00	0.25
Void Ratio	0.3919	0.3871	0.3769	0.3611	0.3387	0.3053	0.2696	0.2337	0.2376	0.2425	0.2447	0.2542	0.2705

C-20-11

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FIGURE C-20A

SOLID WASTE LANDFILL
UNCONFINED COMPRESSIVE STRENGTH RESULTS - ASTM D 1266
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

LOCATION: 1947 SAMPLE NUMBER: 111639 DEPTH: 6.0-8.0 ft.

LENGTH: 5.5703 in. DIAMETER: 2.8600 in. WEIGHT: 1176.8 g

STRAIN AT FAILURE: 11.0% STRESS AT FAILURE: 12.2 pounds per square inch

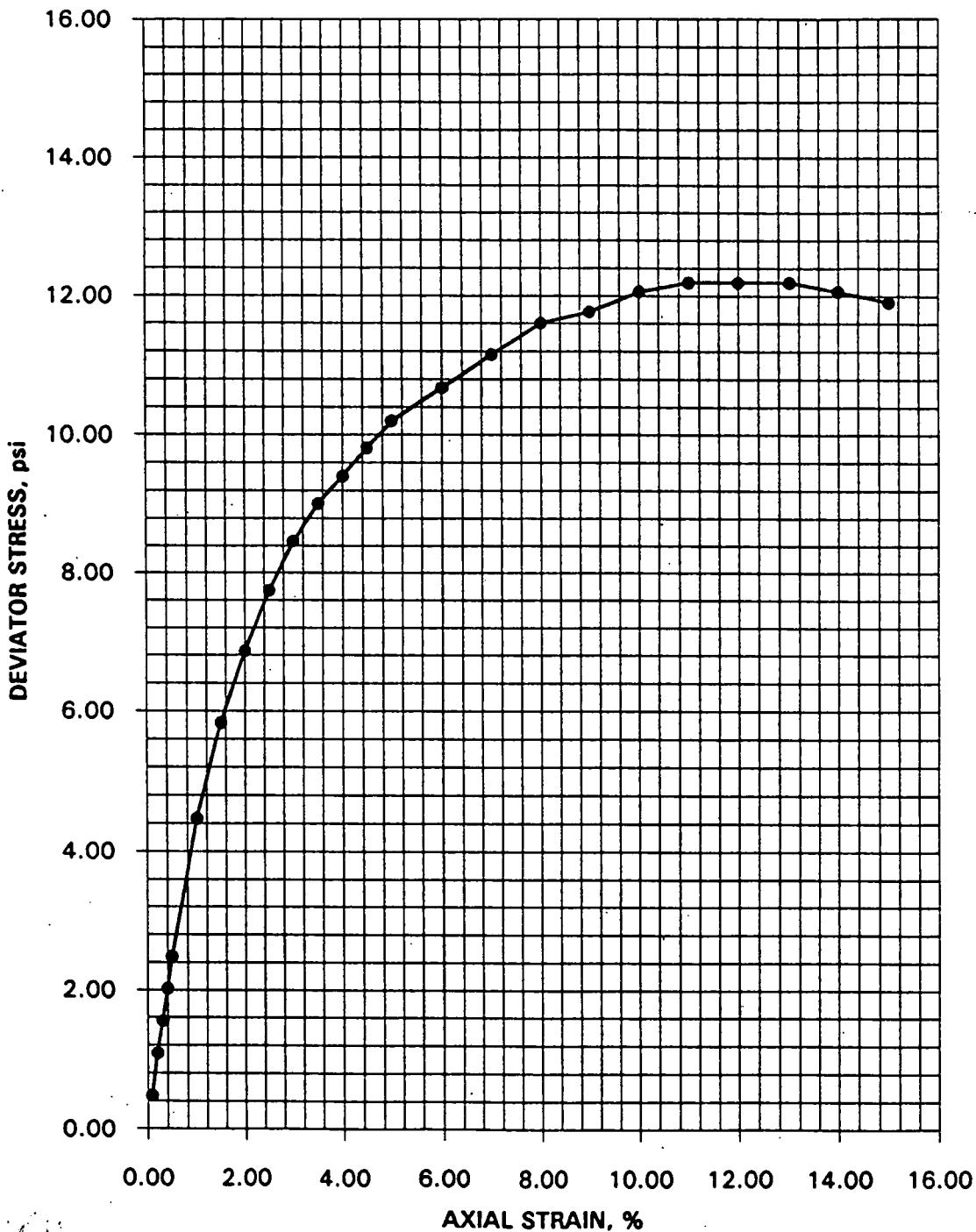
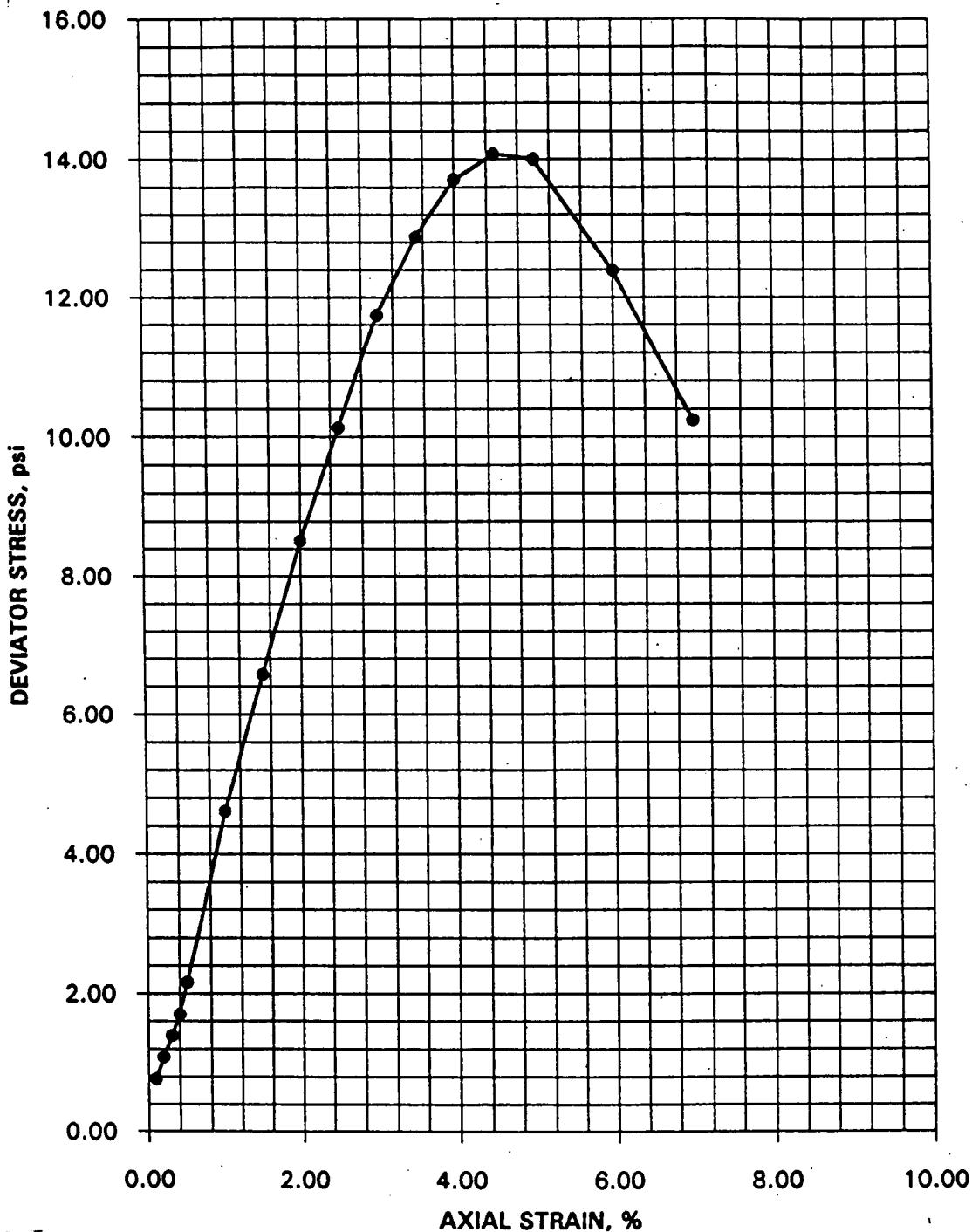


FIGURE C-20B
(Continued)

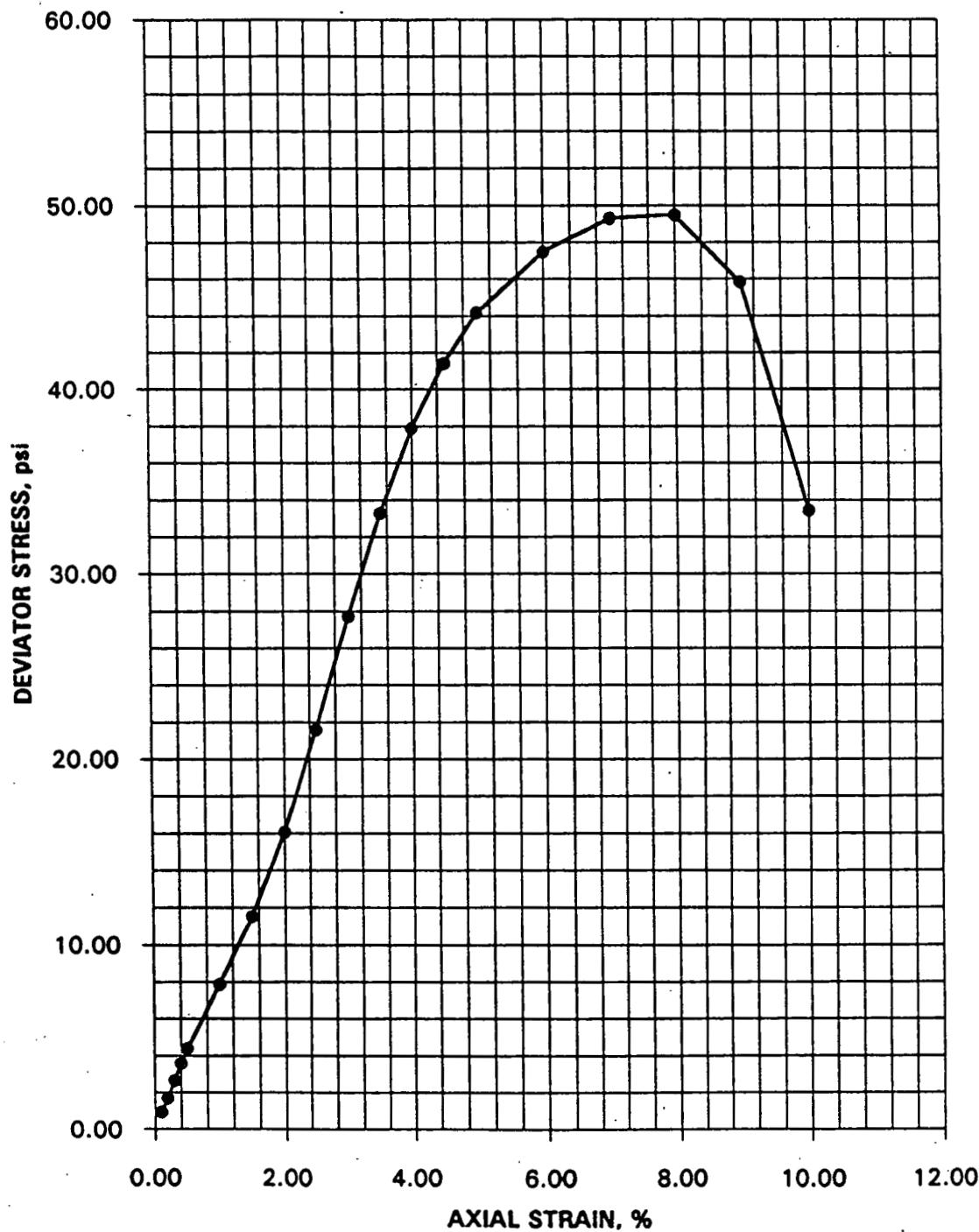
LOCATION: 1950 SAMPLE NUMBER: 111682 DEPTH: 2.0-4.0 ft.
LENGTH: 5.5855 in. DIAMETER: 2.8650 in. WEIGHT: 1200.2 g
STRAIN AT FAILURE: 4.5% STRESS AT FAILURE: 14.1 pounds per square inch



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FIGURE C-20C
(Continued)

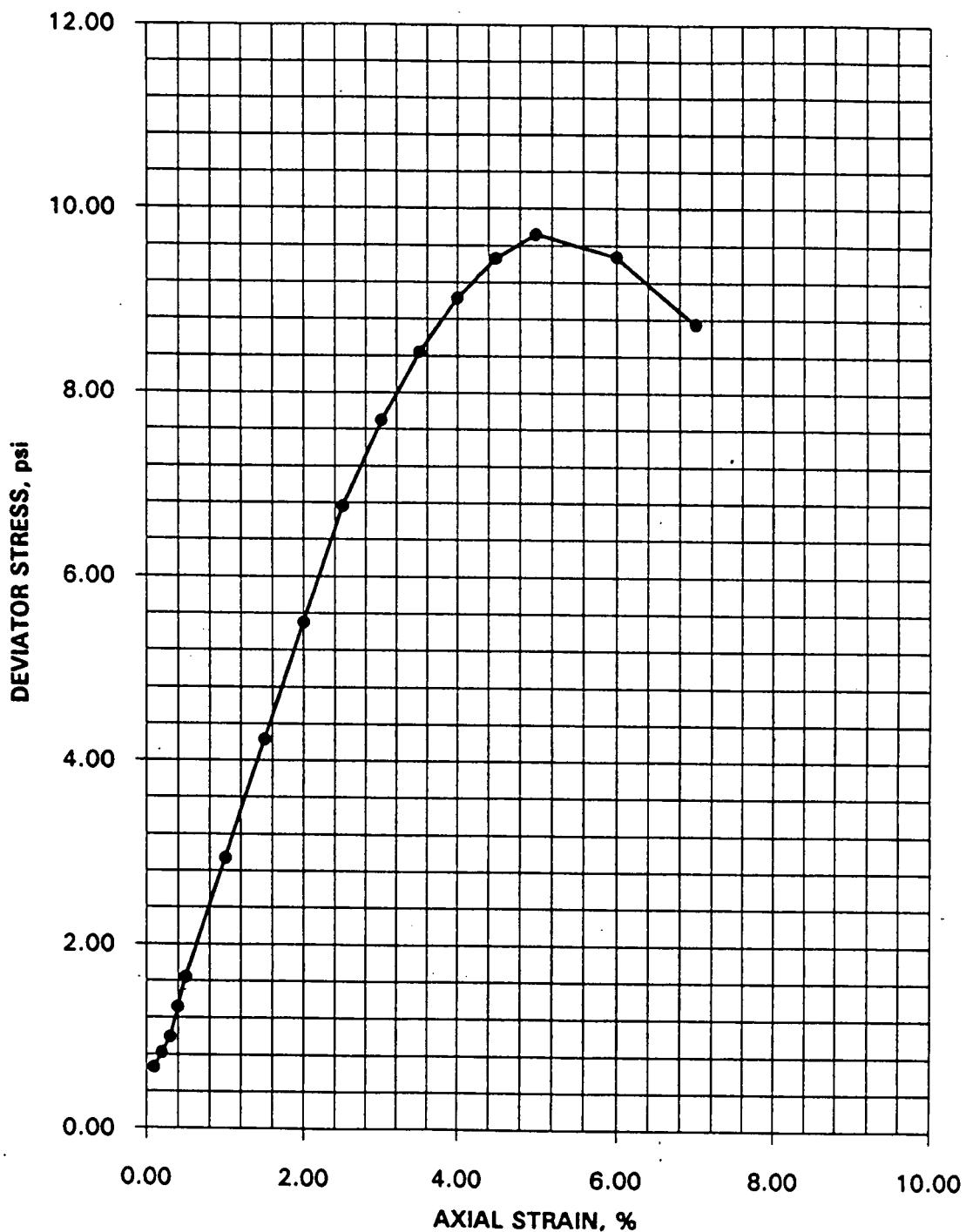
LOCATION: 1950 SAMPLE NUMBER: 115269 DEPTH: 8.0-10.0 ft.
LENGTH: 5.5743 in. DIAMETER: 2.8577 in. WEIGHT: 1286.39 g
STRAIN AT FAILURE: 8.0% STRESS AT FAILURE: 50.0 pounds per square inch



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FIGURE C-20D
(Continued)

LOCATION: 1952 SAMPLE NUMBER: 111658 DEPTH: 4.0-6.0 ft.
LENGTH: 5.5655 in. DIAMETER: 2.7772 in. WEIGHT: 1251.5 g
STRAIN AT FAILURE: 5.0% STRESS AT FAILURE: 9.7 pounds per square inch



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TABLE C-21A

SOLID WASTE LANDFILL
CIS GEOPHYSICAL ANALYSIS
TOTAL MAGNETIC INTENSITY READINGS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

State Planer Coordinates		
North (ft)	East (ft)	Reading (Gammas)
482102.14	1379586.02	55745.0
482127.14	1379586.70	55791.0
482152.13	1379587.38	55810.0
482177.12	1379588.06	55687.0
482202.11	1379588.75	55621.0
482227.10	1379589.44	5550.0
482252.09	1379590.13	55734.0
482251.41	1379615.11	55795.0
482226.41	1379614.42	55067.0
482201.42	1379613.75	56365.0
482176.43	1379613.05	56965.0
482151.44	1379612.36	56113.0
482126.45	1379611.69	55797.0
482101.46	1379611.00	55950.0
482100.78	1379636.00	56549.0
482125.77	1379636.69	55707.0
482150.76	1379637.36	56203.0
482175.75	1379638.05	56447.0
482200.74	1379638.75	56482.0
482225.73	1379639.42	55538.0
482250.72	1379640.11	55592.0
482250.04	1379665.09	54286.0
482225.05	1379664.41	56577.0
482200.06	1379663.72	57049.0
482175.07	1379667.03	56313.0
482150.07	1379662.34	56059.0

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TABLE C-21A
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (Gammas)
482125.09	1379661.67	55805.0
482100.09	1379660.98	56839.0
482099.41	1379685.98	56692.0
482124.40	1379686.67	55846.0
482149.39	1379687.34	56075.0
482174.38	1379688.03	56158.0
482199.37	1379688.72	56388.0
482224.36	1379689.41	56438.0
482249.36	1379690.09	54700.0
482248.67	1379715.08	55406.0
482223.68	1379714.39	56165.0
482198.69	1379713.70	56385.0
482173.70	1379713.02	56085.0
482148.71	1379712.33	55971.0
482123.72	1379711.66	56011.0
482098.73	1379710.97	56680.0
482098.04	1379735.95	56150.0
482123.04	1379736.64	56262.0
482148.02	1379737.31	55848.0
482173.02	1379738.00	55970.0
482198.00	1379738.69	56362.0
482223.00	1379739.38	56071.0
482247.99	1379740.06	56229.0
482247.31	1379765.06	55928.0
482222.31	1379764.38	56812.0
482197.32	1379763.69	56434.0
482172.33	1379763.00	56034.0
482147.34	1379762.31	55871.0
482122.35	1379761.64	56040.0

TABLE C-21A
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (Gammas)
482097.36	1379760.95	56699.0
482096.68	1379785.94	56511.0
482121.67	1379786.63	56278.0
482146.66	1379787.30	55951.0
482171.65	1379787.98	55982.0
482196.64	1379788.67	56079.0
482221.63	1379789.36	56477.0
482246.62	1379790.05	55891.0
482245.94	1379815.05	56098.0
482220.94	1379814.36	55967.0
482195.95	1379813.67	55927.0
482170.96	1379812.98	55933.0
482145.97	1379812.30	55924.0
482120.98	1379811.63	55918.0
482095.99	1379810.94	55902.0
482095.31	1379835.92	55676.0
482120.30	1379836.61	55804.0
482145.29	1379837.28	55824.0
482170.28	1379837.97	55780.0
482195.27	1379838.66	55589.0
482220.26	1379839.34	55678.0
482245.25	1379840.03	56018.0

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TABLE C-21B

**SOLID WASTE LANDFILL
CIS GEOPHYSICAL ANALYSIS
EM 31 READINGS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

<u>State Plane Coordinates</u>		<u>Horizontal Dipole (mmhos/m)</u>	<u>Vertical Dipole (mmhos/m)</u>
Northing (ft.)	Easting (ft.)		
482096.00	1379810.88	27.00	43.00
482219.57	1379864.33	46.00	31.00
482244.57	1379865.02	22.00	40.00
482245.94	1379815.05	23.00	31.00
482195.95	1379813.67	26.00	39.00
482145.97	1379812.30	25.00	40.00
482120.98	1379811.63	30.00	44.00
482097.36	1379760.95	70.00	-100.00
482092.36	1379760.81	84.00	-100.00
482105.36	1379761.17	82.00	-100.00
482117.35	1379761.50	54.00	58.00
482130.35	1379761.86	53.00	27.00
482147.34	1379762.31	32.00	46.00
482197.32	1379763.69	46.00	59.00
482207.32	1379763.97	66.00	-100.00
482206.32	1379763.94	66.00	-100.00
482214.32	1379764.16	62.00	-100.00
482217.31	1379764.23	62.00	-100.00
482222.31	1379764.38	62.00	32.00
482242.31	1379764.92	65.00	8.00
482247.31	1379765.06	50.00	55.00
482223.68	1379714.39	46.00	50.00
482198.69	1379713.70	47.00	40.00
482180.69	1379713.20	36.00	50.00
482176.70	1379713.09	38.00	50.00
482173.70	1379713.02	36.00	47.00
482161.70	1379712.69	38.00	48.00
482148.71	1379712.33	41.00	54.00
482123.72	1379711.66	45.00	62.00
482106.72	1379711.19	68.00	2.40
482098.73	1379710.97	54.00	48.00
482100.09	1379660.98	61.00	-100.00
482098.09	1379660.92	61.00	-100.00
482110.09	1379661.25	70.00	-100.00
482113.09	1379661.34	54.00	64.00
482150.07	1379662.34	20.00	35.00

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TABLE C-21B
(Continued)

State Plane Coordinates		Horizontal Dipole (mmhos/m)	Vertical Dipole (mmhos/m)
Northing (ft.)	Easting (ft.)		
482175.07	1379663.03	38.00	45.00
482190.06	1379663.44	44.00	33.00
482193.06	1379663.53	42.00	48.00
482200.06	1379663.72	45.00	45.00
482210.05	1379664.00	42.00	55.00
482225.05	1379664.41	56.00	32.00
482201.42	1379613.73	100.00	-100.00
482207.42	1379613.91	66.00	-100.00
482176.43	1379613.05	64.00	-100.00
482151.44	1379612.36	29.00	43.00
482139.44	1379612.03	30.00	38.00
482121.45	1379611.55	34.00	51.00
482101.46	1379611.00	29.00	51.00
482111.46	1379611.27	34.00	44.00
482276.39	1379615.78	23.00	29.00
482301.39	1379616.47	25.00	33.00
482351.37	1379617.84	26.00	32.00
482376.36	1379618.52	28.00	36.00
482401.35	1379619.20	23.00	31.00
482451.33	1379620.58	22.00	31.00
482476.32	1379621.27	23.00	34.00
482474.95	1379671.25	23.00	37.00
482449.96	1379670.56	22.00	33.00
482399.98	1379669.19	25.00	34.00
482374.99	1379668.50	20.00	27.00
482350.00	1379667.83	20.00	28.00
482325.01	1379667.14	25.00	30.00
482300.02	1379666.45	25.00	33.00
482298.65	1379716.44	26.00	37.00
482348.63	1379717.81	31.00	36.00
482398.61	1379719.17	23.00	32.00
482380.62	1379718.69	24.00	30.00
482448.59	1379720.55	28.00	34.00
482473.59	1379721.23	29.00	42.00
482472.22	1379771.22	28.00	37.00
482447.23	1379770.53	21.00	34.00
482397.25	1379769.16	27.00	34.00
482347.27	1379767.80	26.00	34.00
482297.29	1379766.42	20.00	26.00
482295.92	1379816.41	20.00	21.00
482345.90	1379817.78	24.00	32.00
482395.88	1379819.14	24.00	32.00

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February 18, 1994TABLE C-21B
(Continued)

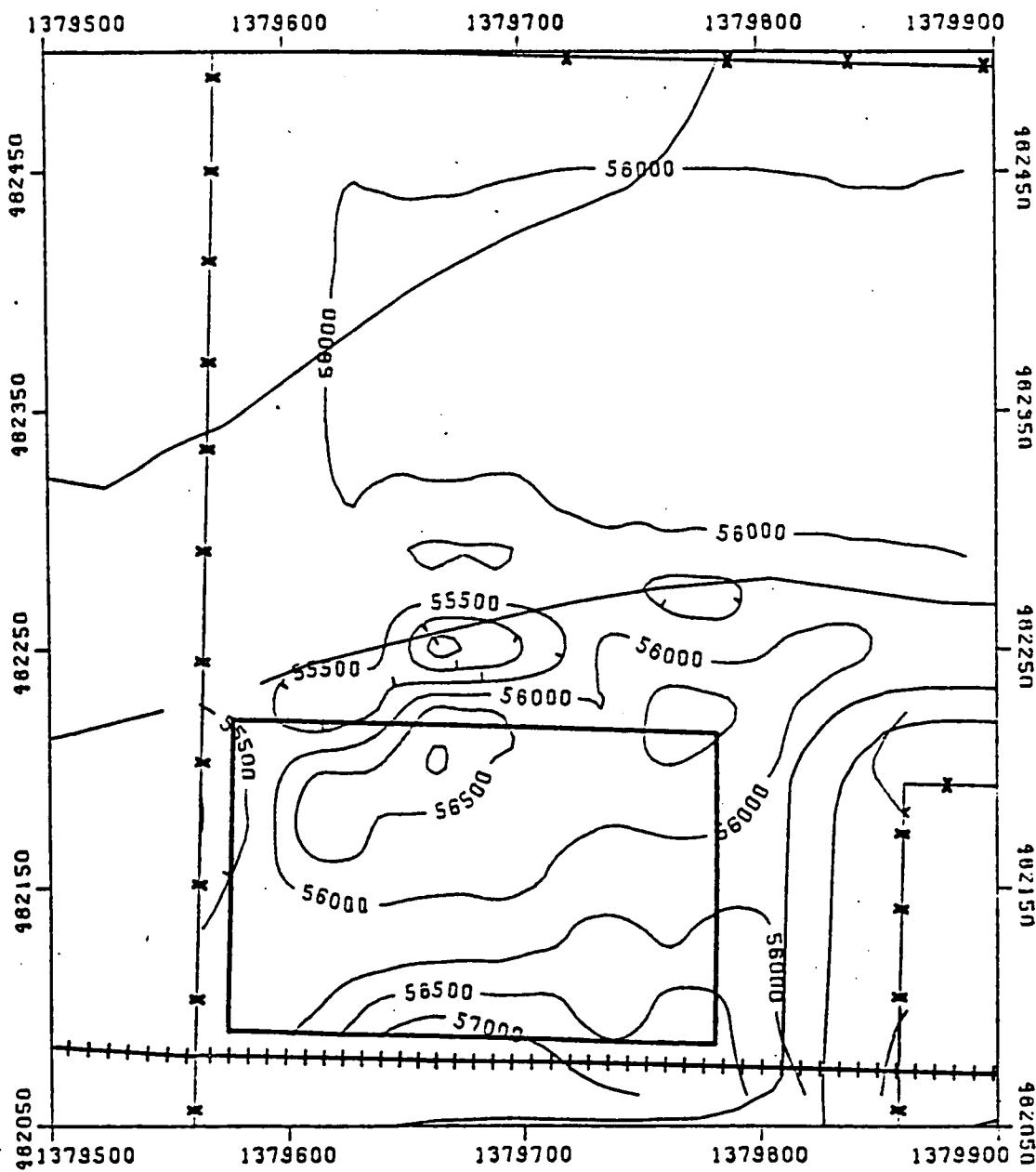
State Plane Coordinates			
Northing (ft.)	Easting (ft.)	Horizontal Dipole (mmhos/m)	Vertical Dipole (mmhos/m)
482420.87	1379819.83	24.00	31.00
482445.86	1379820.52	22.00	28.00
482470.85	1379821.20	22.00	35.00
482469.48	1379871.17	20.00	35.00
482444.49	1379870.48	21.00	28.00
482394.51	1379869.11	22.00	31.00
482344.53	1379867.75	20.00	28.00
482294.55	1379866.38	20.00	28.00

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FIGURE C-21A
SOLID WASTE LANDFILL
CIS GEOPHYSICAL ANALYSIS
TOTAL MAGNETIC INTENSITY CONTOURS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour interval 500 Gammas)



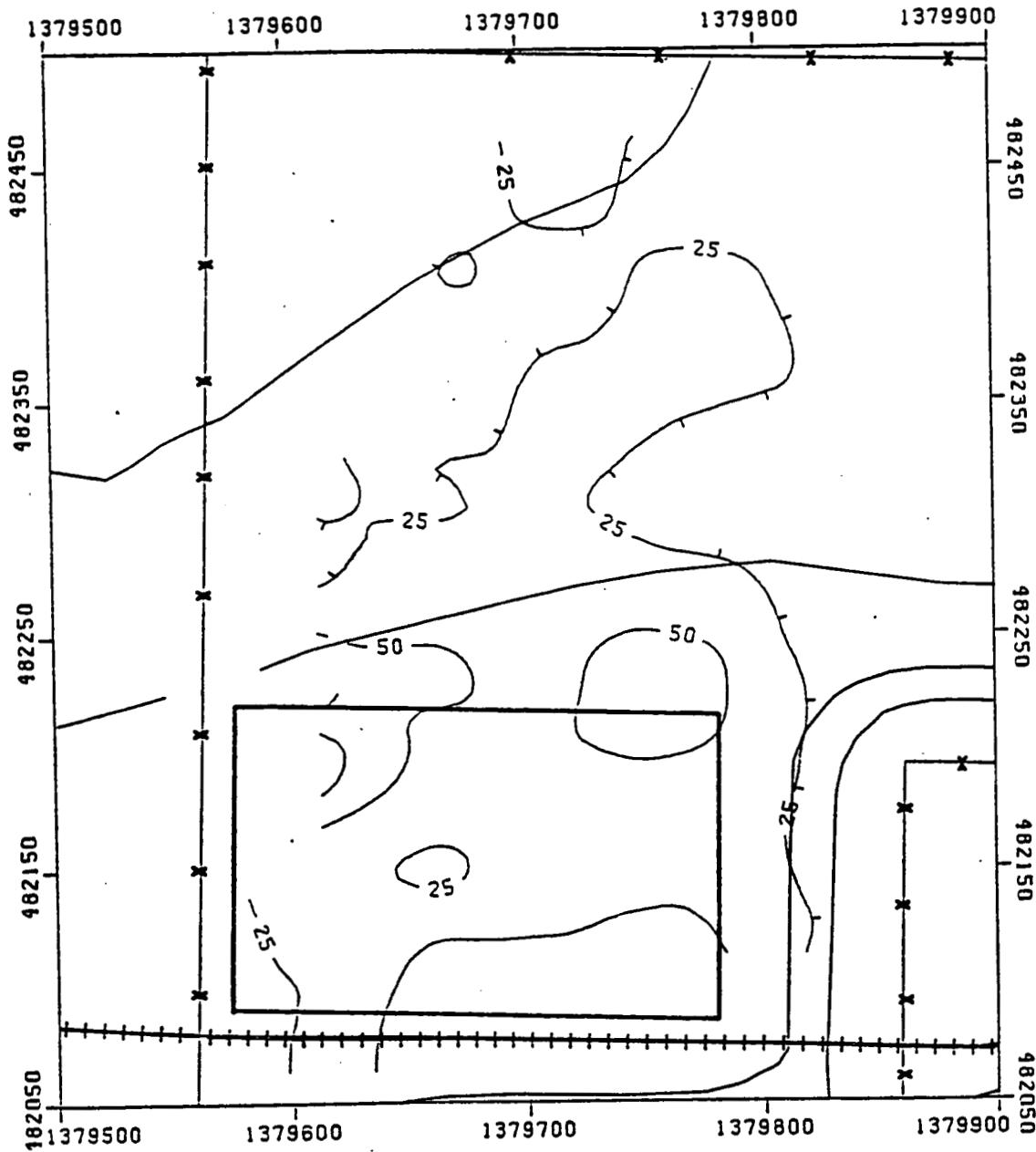
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FIGURE C-21B

SOLID WASTE LANDFILL
CIS GEOPHYSICAL ANALYSIS
EM 31 HORIZONTAL DIPOLE APPARENT CONDUCTIVITY MAP
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour interval 20.0 mmhos/m)



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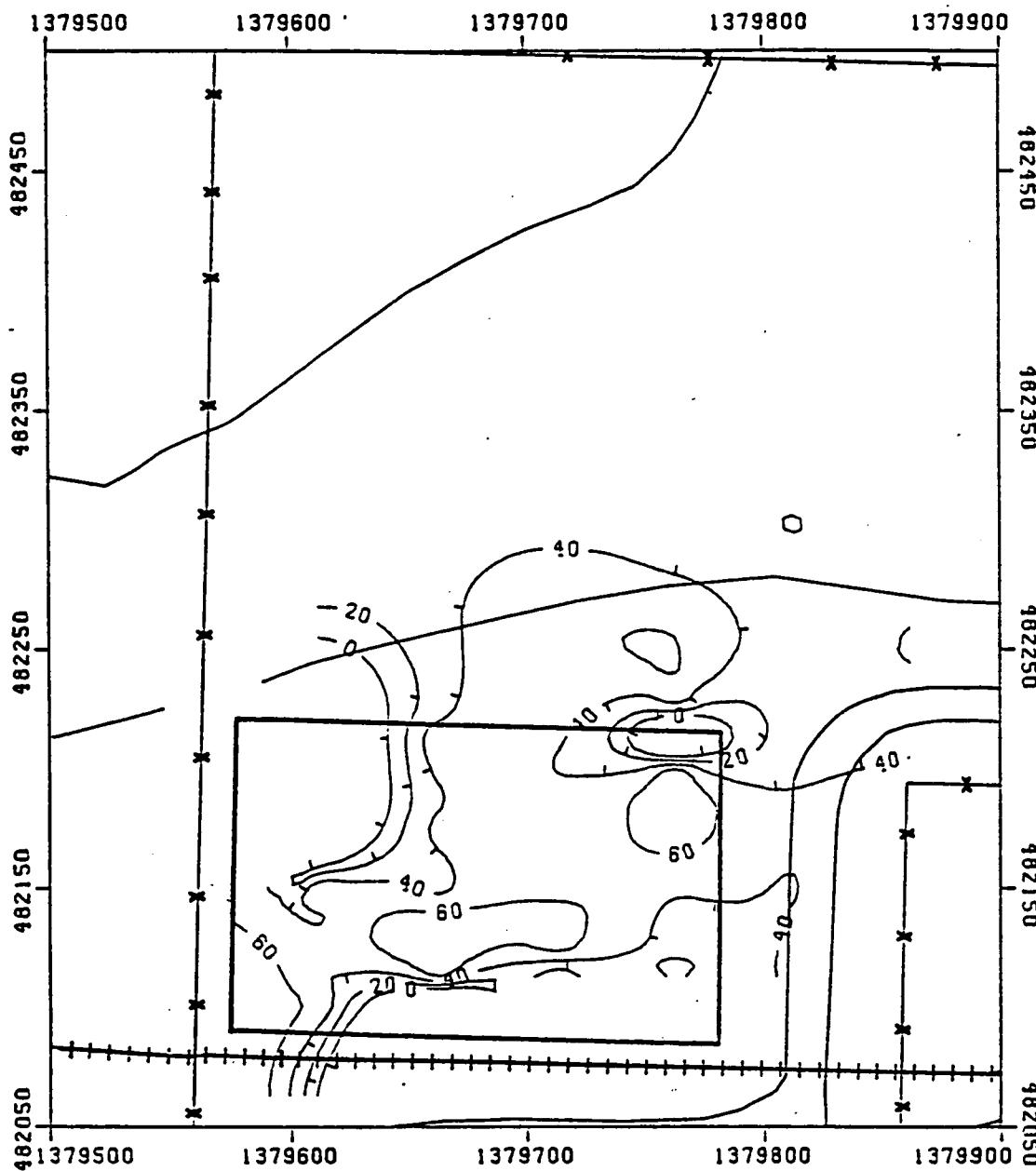
FEMP-OU02-4 DRAFT

February 18, 1994

FIGURE C-21C

SOLID WASTE LANDFILL
CIS GEOPHYSICAL ANALYSIS
EM 31 VERTICAL DIPOLE APPARENT CONDUCTIVITY MAP
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour interval 20.0 mmhos/m)



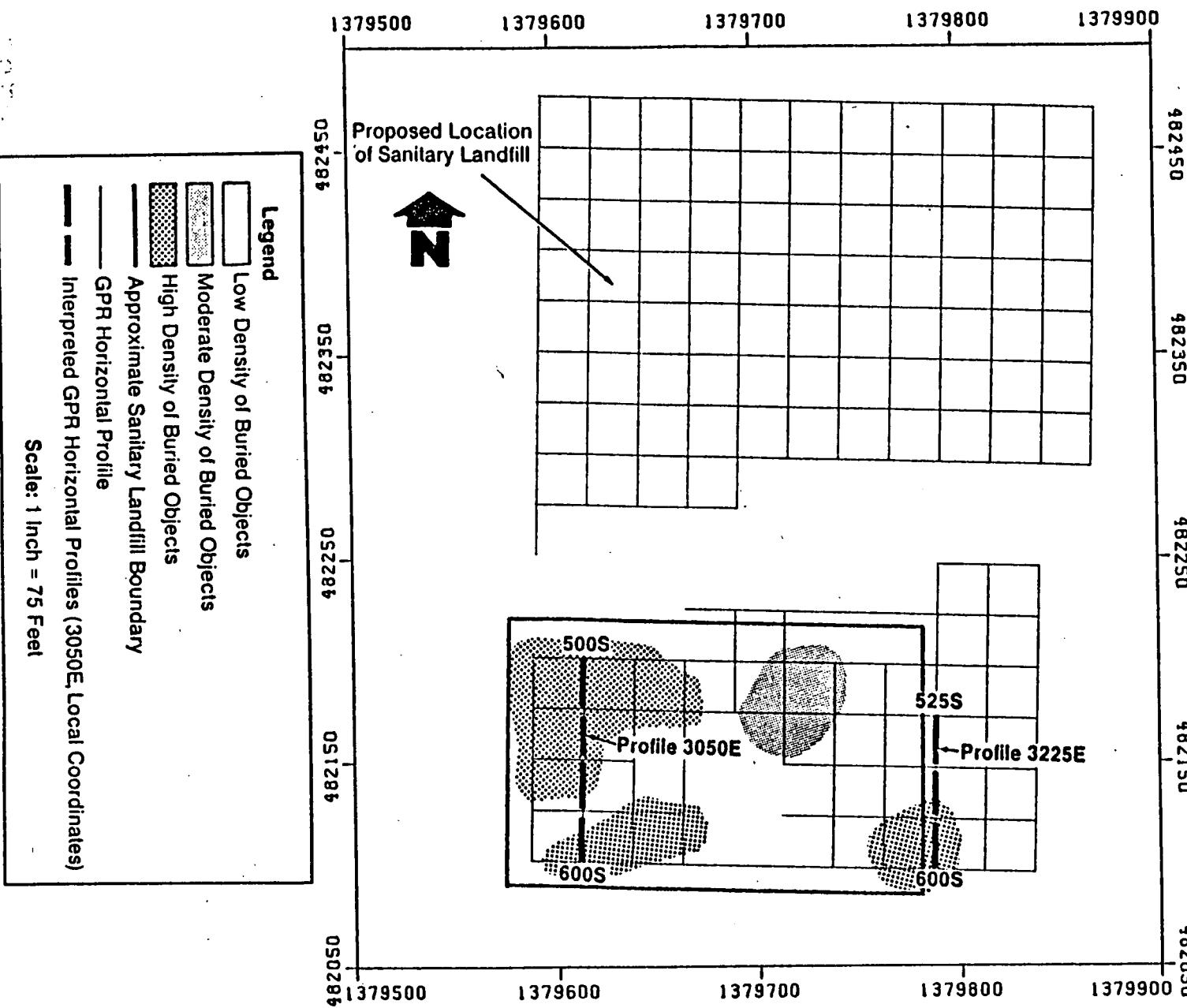
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FIGURE C-21D

SOLID WASTE LANDFILL
CIS GEOPHYSICAL ANALYSIS
GROUND PENETRATING RADAR RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT



02/02/94 13:57

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1035					COORDINATES: NORTH 482200.60 EAST 1379710.46			DATE: 20-MAR-88	
GROUND ELEVATION: 584.3					GWL: Depth Date/Time			DATE STARTED: 20-MAR-88	
ENGINEER/GEOLOGIST: M. SLUSARSKI					Depth Date/Time			DATE COMPLETE: 21-MAR-88	
DRILLING METHOD: CABLE-TOOL DRILLING									
D E P T H	S A D T M P L E	D A T E M T M E	B L O W S P O N	S A C O P L E	R E C O P R E V E R Y	I N C H E S H E R Y	S U Y S M C B S O L	T S F	REMARKS
1.5	008374 03/20/88 09:33	1 3 4	8		MEDIUM STIFF, YELLOW-BROWN (10YR, 4/2) CLAY, SOME SILT, ROOTLETS, DRY.		CL	1.0	PID=0 ppm BI=80 cpm
1.5 3.0	008375 03/20/88 09:35	2 3 4	10		MEDIUM STIFF, YELLOW-BROWN (10YR, 4/4) CLAY, SOME SILT, DRY.		CL	1.0	PID=0 ppm BI=80 cpm
3.0 4.5	008376 03/20/88 09:38	4 6 8	14		STIFF, GREY (10YR, 6/1) CLAY, SOME SILT, DRY.		CL	1.5	PID=0 ppm BI=80 cpm
4.5 6.0	008377 03/20/88 09:41	7 8 9	12		STIFF, GREY (10YR, 6/1) CLAY, TRACE MEDIUM GRAVEL, DRY. SOFT, GREY (10YR, 6/1) CLAY, SOME SILT, DAMP.		CL CL	2.0 .5	PID=0 ppm BI=80 cpm
6.0 7.5	008378 03/20/88 09:45	7 8 9	2		SOFT, GREY (10YR, 6/1) CLAY, SOME SILT, DAMP. SOFT, GREY-BROWN (10YR, 5/4) CLAY, SOME SILT, DAMP. STIFF, YELLOW-BROWN (10YR, 5/3) CLAY, SOME SILT, SOME FINE GRAVEL, DRY.		CL CL CL	2.0 .5 2.0	PID=0 ppm BI=80 cpm
7.5 9.0	008379 03/20/88 10:31	6 8 12	18		STIFF, YELLOW-BROWN (10YR, 5/3) CLAY, SOME SILT, SOME FINE GRAVEL, DRY.		CL	2.0	PID=0 ppm BI=80 cpm
12.0 13.5	008382 03/20/88 15:40	12 10 13	12		STIFF, YELLOW-BROWN (10YR, 5/4) CLAY, SOME SILT AND FINE GRAVEL, DRY.		CL	1.5	PID=0 ppm BI=80 cpm
13.5 15.0	008383 03/20/88 15:50	3 5 6	14		SOFT GREY (5Y, 5/1) CLAY, SOME SILT AND FINE GRAVEL, DAMP.		CL	.5	PID=0 ppm BI=80 cpm
15.0 16.5	008384 03/20/88 16:00	2 5 5	14		SOFT, GREY (5Y, 5/1) CLAY, SOME SILT AND FINE GRAVEL, DAMP.		CL	.5	PID=0 ppm BI=80 cpm
16.5 18.0	008385 03/20/88 16:08	2 3 4	14		SOFT, GREY (5Y, 5/1) CLAY, SOME SILT AND FINE GRAVEL, DAMP.		CL	.5	PID=0 ppm BI=80 cpm
18.0 19.5	008386 03/20/88 16:17	3 4 6	14		MEDIUM STIFF, GREY (5Y, 5/1) CLAY, SOME SILT AND FINE GRAVEL, DAMP.		CL	1.0	PID=0 ppm BI=80 cpm
19.5 21.0	008387 03/21/88 09:07	5 5 7	8		SOFT GREY (5Y, 5/1) CLAY, SOME MEDIUM-FINE GRAVEL, DAMP.		CL	.5	PID=0 ppm BI=80 cpm
22.5 24.0	008389 03/21/88 09:55	14 50 34	10		STIFF, GREY-GREEN (5Y, 5/2) SILTY CLAY, DRY.		CL	1.5	PID=0 ppm BI=80 cpm
NOTES:									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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02/02/94, 13:57

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PROJECT NUMBER: 602 3.2				PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION			
BORING NUMBER: 1035				COORDINATES: NORTH 482200.60 EAST 1379710.46 DATE: 20-MAR-88			
GROUND ELEVATION: 584.3				GWL: Depth Date/Time DATE STARTED: 20-MAR-88			
ENGINEER/GEOLOGIST: M. SLUSARSKI				Depth Date/Time DATE COMPLETE: 21-MAR-88			
DRILLING METHOD: CABLE-TOOL DRILLING							
D E P T H	S A M P L E	D A T E E E	B I M S L O N	R I C O C H E R	S Y S M C B S O L	T S F	REMARKS
24.0	008390 03/21/88 10:51	9 14 23	16	MEDIUM DENSE, GREY (5Y, 5/1) WELL GRADED GRAVEL-SAND MIXTURE, WET. HARD, GREY (5Y, 5/1) CLAY, SOME SILT, DRY.	GW CL	N/A >4.	PID=0 ppm BR=80 cpm
25.5	008391 03/21/88 11:17	11 18 20	14	MEDIUM DENSE, GREY (5Y, 5/1) WELL GRADED GRAVEL-SAND MIXTURE, WET. STIFF, GREY (5Y, 4/1) CLAY, SOME SILT, DRY.	GW CL	N/A 3.5	PID=0 ppm BR=80 cpm
NOTES: <small>SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</small>							

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02/02/94 13:57

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1038					COORDINATES: NORTH 482055.43 EAST 1379622.49			DATE: 11-JAN-88			
GROUND ELEVATION: 581.9					GWL: Depth	Date/Time		DATE STARTED: 11-JAN-88			
ENGINEER/GEOLOGIST: W. KEGLEY					Depth	Date/Time		DATE COMPLETE: 13-JAN-88			
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E	D T M E E	B L O W S P L E O N	S A I M R E C O V P R E Y	I N C H E R E S		S U Y S M C B S O L	T S F	REMARKS		
1.5 3.0	007897 01/11/88 11:30	10 13 14	15	VERY STIFF DARK YELLOWISH BROWN (10YR, 4/4) SILT AND GRAVEL WITH CLAY - DRY. STIFF VERY DARK GREY (5Y, 3/1) CLAY - DRY.					ML CL	3.0 1.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm
3.0 4.5	007898 01/11/88 13:05	15 20 26	14	STIFF VERY DARK GREY (5Y, 3/1) CLAY WITH SILT, TRACE SAND - DRY.					CL	2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100-120$ cpm
4.5 6.0	007899 01/11/88 13:10	10 12 12	18	STIFF VERY DARK GREY (5Y, 3/1) CLAY WITH SILT, TRACE SAND - DRY. STIFF YELLOWISH BROWN (10YR, 5/6) MOTTLED CLAY, TRACE GRAVEL AND SILT - DRY.					CL CL	2.0 1.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80-100$ cpm
6.0 7.5	007900 01/11/88 13:15	9 10 12	16	STIFF YELLOWISH BROWN (10YR, 5/6) MOTTLED CLAY, TRACE GRAVEL AND SILT - DRY.					CL	2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80-100$ cpm
7.5 9.0	007901 01/12/88 08:00	10 13 21	18	VERY STIFF YELLOWISH BROWN (10YR, 5/4) MOTTLED CLAY, TRACE GRAVEL AND SILT - DRY.					CL	3.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80-100$ cpm
9.0 10.5	007902 01/12/88 08:15	17 16 21	7	STIFF YELLOWISH BROWN (2.5Y, 6/4) MOTTLED SILT AND CLAY WITH GRAVEL, SOME SAND - DRY.					ML	2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80-100$ cpm
10.5 12.0	007903 01/12/88 08:50	12 20 26	17	HARD LIGHT YELLOWISH BROWN (2.5YR, 6/4) MOTTLED CLAY AND SILT WITH GRAVEL, SOME SAND - DRY.					CL	4.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80-100$ cpm
12.0 13.5	007904 01/12/88 09:10	14 24 26	18	HARD STRONG BROWN (7.5YR, 5/6) CLAY AND SILT WITH GRAVEL, SOME SAND - DRY. VERY STIFF GREY (5Y, 5/1) CLAY AND SILT, TRACE GRAVEL - DRY.					CL CL	4.5 3.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80-100$ cpm
13.5 15.0	007905 01/12/88 09:30	10 20 24	16	VERY STIFF GREY (5Y, 5/1) CLAY AND SILT, TRACE GRAVEL - DRY. TIGHT VERTICAL FRACTURE WITH Fe2O3 (IRON OXIDE??) STAINS.					CL	3.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80-100$ cpm
15.0 16.5	007907 01/12/88 10:45	4 8 14	8	STIFF DARK GREY (5Y, 4/1) CLAY, SOME GRAVEL, TRACE SAND.					CL	1.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
16.5 18.0	007908 01/12/88 13:25	13 8 16	10	VERY STIFF GREY (5Y, 5/1) CLAY, SOME GRAVEL AND SAND - DRY. VERY DENSE GREY (5Y, 5/1) SAND AND SILT, TRACE GRAVEL - TOP DRY, BOTTOM MOIST.					CL SM	3.0 4.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
24.0 25.5	007948 01/12/88 15:36	18 28 29	10	VERY STIFF GREY (5Y, 5/1) CLAY AND SILT, SOME SAND AND GRAVEL - DRY.					CL	3.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
25.5 27.0	007949 01/12/88 16:21	10 19 26	13	STIFF OLIVE (5Y, 5/3) CLAY, SOME GRAVEL AND SILT, TRACE WOOD FRAGMENTS - DRY.					CL	2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1038					COORDINATES: NORTH 482055.43 EAST 1379622.49 DATE: 11-JAN-88						
GROUND ELEVATION: 581.9					GWL: Depth Date/Time DATE STARTED: 11-JAN-88						
ENGINEER/GEOLOGIST: W. KEGLEY					Depth Date/Time DATE COMPLETE: 13-JAN-88						
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E	D A T E E E	T I M E S P L E	B L O W S O N	R E C O V E R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS	
27.0	007951 01/13/88 08:59	18 22 24	14	HARD, OLIVE GREY (5Y, 5/2) CLAY, SOME SILT, TRACE GRAVEL.					CL	4.5	PID=0 ppm d=0 ppm BR=100 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11036				COORDINATES: NORTH 482111.18 EAST 1379701.23				
GROUND ELEVATION: 588.5				GWL: Depth	Date/Time	DATE STARTED: 17-MAY-93		
ENGINEER/GEOLOGIST: A COMO				Depth	Date/Time	DATE COMPLETE: 17-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER								
D E P T H	S A M P L E	D A T E E E	B L O W M E S	S A M P L E R E V E Y	I N C O C H E S	S U S M C B S O L	T S F	REMARKS
2.5	05/17/93 10:05	N/A	30	HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, NO PLASTICITY, GRAVEL, DRY	CL	4.0	PID=0.5 ppm BT=50-100 cpm	
2.5 3.5	115381 05/17/93 10:05	N/A	1	SAA, DRY	CL	4	PID=0.5 ppm BT=50 - 100 cpm	
3.5 5.0	115381 05/17/93 10:05	N/A	18	HARD, (5Y, 4/1) DARK GRAY, SILTY CLAY, SLIGHT PLASTICITY, SOME (5Y, 2.5/1) BLACK SILTY CLAY, GRAVEL, DRY, GLASS, PIECES OF SLAG	CL	3.25	PID=.5 ppm BT=3500-4000 cpm	
5.0 7.5	05/17/93 10:20	N/A	24	SAA, DRY	CL	2.5	PID=0.5 ppm BT=500 cpm	
7.5 10.0	05/17/93 00:00	N/A	N/A	NO RECOVERY	N/A	N/A		
10.0 12.5	05/17/93 00:00	N/A	N/A	NO RECOVERY	N/A	N/A		
12.5 15.0	05/17/93 00:00	N/A	N/A	NO RECOVERY	N/A	N/A		
15.0 17.0	05/17/93 00:00	N/A	N/A	AUGERED FROM 15' TO 17' TO BREAK UP OBSTRUCTION	N/A	N/A		
17.0 19.0	115380 05/17/93 13:45	N/A	24	VERY HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, SOME (5Y, 5.1) CLAY, NO PLASTICITY, FEW PIECES OF GRAVEL, DRY, PIECE OF WOOD AT TOP OF SPOON, IRON STAINING ON CLEAVAGE PLANES	ML	4.5	PID=0.5 ppm BT=50-100 cpm	
19.0 21.0	05/17/93 00:00	N/A	N/A	@ 14:00 PUSHED SHELBY FROM 19.0' TO 21.0' SAMPLE NO.115382	N/A	N/A		
21.0	05/17/93 00:00	N/A	N/A	BOTTOM OF BORING = 21 FEET	N/A	N/A		
NOTES: USED CME SAMPLER TO 19' THEN PUSHED SHELBY TUBE FROM 19' TO 21'. BACKGROUND READINGS: MT = .5 PPM, BETA/GAMMA = 50-100 CPM				Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: DON SMITH, SAM SMITH				
				SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable				

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FEMP-OU02-4 DRAFT
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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 11037				COORDINATES: NORTH 482133.33 EAST 1379722.92			DATE: 15-MAY-93	
GROUND ELEVATION: 589.2				GWL: Depth Date/Time			DATE STARTED: 15-MAY-93	
ENGINEER/GEOLOGIST: A COMO				Depth Date/Time			DATE COMPLETE: 15-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER								
DEPTH	SAMPLE TIME	BLOW COUNT	RECOVERY				SYMBOL	TSF
	DATE	ON	RECOVERED					
2.5	05/15/93 09:55	N/A	30	VERY HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, DRY, ORGANIC MATERIAL, ROOTS	CL	4.25	PID=1.5 ppm BT=40-80 cpm	
2.5	05/15/93 09:55	N/A	18	SAA, DRY	CL	4.25	PID=1.5 ppm BT=40-80 cpm	
4.0	05/15/93 09:55	N/A	12	VERY HARD, (5Y, 4/1) DARK GRAY, SILTY CLAY, SLIGHT PLASTICITY, SOME GRAVEL, DRY, SOME WASTE MATERIAL; PLASTIC CUP LIDS, METAL CAPS	CL	4.5		
5.0	115371 05/15/93 10:10	N/A	12	HARD, (5Y, 5/1) GRAY TO (5Y, 4/1) DARK GRAY SILTY CLAY, MEDIUM PLASTICITY, SOME GRAVEL, MOIST	CL	2.0	PID=1.5 ppm BT=40-80 cpm	
6.0	115371 05/15/93 10:10	N/A	18	VERY HARD, (5Y, 4/1) DARK GRAY TO (5Y, 3/1) VERY DARK GRAY, SILTY CLAY, LOW PLASTICITY, SOME SMALL GRAVEL, DRY	CL	4.5	PID=1.5 ppm BT=40-80 cpm	
7.5	05/15/93 10:10	N/A	0	NO RECOVERY	N/A	N/A		
10.0	05/15/93 10:20	N/A	30	VERY HARD, (5Y, 5/1) GRAY TO (5Y, 3/1) VERY DARK GRAY, SILT CLAY, MEDIUM PLASTICITY, DRY *SEE NOTES	CL	4.5	PID=1.5 ppm BT=40-80 cpm	
12.5	05/15/93 10:20	N/A	6	SAA, DRY	CL	4.5	PID=1.5 ppm BT=40-80 cpm	
13.0	05/15/93 10:20	N/A	24	HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT WITH SOME (5Y, 5/1) TO (5Y, 3/1) SILTY CLAY, MEDIUM PLASTICITY, DRY	ML	2.75		
15.0	05/15/93 11:00	N/A	30	SAA, WET	ML	2.75	PID=1.5 ppm BT=40-80 cpm	
17.5	05/15/93 00:00	N/A	30	VERY HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SOME (5Y, 5/1) GRAY CLAY ALONG CLEAVAGE PLANES, NO PLASTICITY, DRY, SOME SAND, WELL SORTED (SAND WAS WET), IRON STAINING ON CLEAVAGE PLANES	CL	4.5	PID=1.5 ppm BT=40-80 cpm	
20.0	115370 115374 05/15/93 13:50	N/A	30	@ 13-50 PUSH SHELBY TUBE FROM 20 TO 22. COLLECTED WATER SAMPLE 115374.	N/A	N/A		

NOTES:

SHELBY TUBE WAS PUSHED AFTER SAMPLING/DRILLING USING CME SAMPLER. SHELBY TUBE WAS PUSHED FROM 20.0' TO 22.0'. * ONLY HALF OF SAMPLER FILLED THROUGHOUT 2.5' LENGTH OF RECOVERED SAMPLE. LOOKS LIKE THE SAMPLE WAS CUT IN HALF.
 BACKGROUND: MT = 1.5 ppm; BETA GAMMA 40-80 CPM

Boring Contractor: PENNSYLVANIA DRILLING CO
 Driller: DON SMITH, ROBERT YOST

SAA = Same as Above
 PID = Photoionization Detector
 N/A = Not Applicable

02/02/94 13:57

PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11037				COORDINATES: NORTH 482133.33 EAST 1379722.92 DATE: 15-MAY-93					
GROUND ELEVATION: 589.2				GWL: Depth Date/Time		DATE STARTED: 15-MAY-93			
ENGINEER/GEOLOGIST: A COMO				Depth Date/Time		DATE COMPLETE: 15-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER									
D E P T H	S A M P L E	D A T E E E	B I M E S N	R I C O L E	I N C H E R	S Y S M C B S O L	T S F	REMARKS	
22.0	05/15/93 00:00	N/A	N/A	BOTTOM OF BORING = 22 FEET			N/A	N/A	
NOTES: SHELBY TUBE WAS PUSHED AFTER SAMPLING/DRILLING USING CME SAMPLER. SHELBY TUBE WAS PUSHED FROM 20.0' TO 22.0'. * ONLY HALF OF SAMPLER FILLED THROUGHOUT 2.5' LENGTH OF RECOVERED SAMPLE. LOOKS LIKE THE SAMPLE WAS CUT IN HALF. BACKGROUND: MT = 1.5 ppm; BETA GAMMA 40-80 CPM								Boring Contractor: PENNSYLVANIA DRILLING CO Driller: DON SMITH, ROBERT YOST SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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02/02/94 13:57

PROJECT NUMBER: 20.03.05				PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION			
BORING NUMBER: 11038				COORDINATES: NORTH 482115.28 EAST 1379746.55 DATE: 16-MAY-93			
GROUND ELEVATION: 588.2				GWL: Depth Date/Time		DATE STARTED: 16-MAY-93	
ENGINEER/GEOLOGIST: A COMO				Depth Date/Time		DATE COMPLETE: 16-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER							
DEPTH	SAMPLE	BLOW	RECOVERY	SYMBOL	TSF	REMARKS	
DEPTHEE	DATE	TIME	LEVEON	RECOVERIES			
2.0	115375 115376 05/16/93 10:00	N/A	24	HARD, (2.5Y, 5/4) SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, MOIST, SOME SAND, WELL GRADED, PIECES OF GLASS, PLASTIC, METAL, CLAY PIPE, TAR LIKE MATERIAL	CL	3.0	PID=1.4 ppm BT=40-80 cpm
2.0 2.5	115375 115376 05/16/93 10:00	N/A	6	(2.5Y, 7/8) YELLOW AND (5Y, 8/1) WHITE, SILT LIKE MATERIAL, SOME GRAVEL, MOIST	N/A	N/A	PID=1.4 ppm BT=28000 cpm
2.5 5.0	05/16/93 10:00	N/A	0	NO RECOVERY	N/A	N/A	
5.0 7.5	05/16/93 10:15	N/A	30	HARD, (5Y, 4/1) DARK GRAY, SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, DRY	CL	3.0	PID=1.4 ppm BT=40-80 cpm
7.5 8.0	05/16/93 10:15	N/A	6	SAA	N/A	N/A	PID=1.4 ppm BT=40-80 cpm
8.0 9.0	05/16/93 10:15	N/A	12	HARD, (5Y, 5/1) BLACK, SILTY CLAY, MEDIUM PLASTICITY, SOME ORGANIC MATERIAL, DRY	CL	2.75	PID=1.4 ppm BT=40-80 cpm
9.0 10.0	05/16/93 10:15	N/A	12	HARD, (5Y, 5/1) GRAY, SILTY CLAY, SOME SMALL GRAVEL, DRY, PIECE OF CONCRETE IN TIP OF SAMPLE	CL	2.75	PID=1.4 ppm BT=40-80 cpm
10.0 11.0	05/16/93 10:35	N/A	12	HARD, (5Y, 5/1) GRAY TO (5Y, 4/1) DARK GRAY, SILTY CLAY, SOME (2.5Y, 5/6) LIGHT OLIVE BROWN SILT, LOW PLASTICITY, DRY	CL	3.0	PID=1.4 ppm BT=40-80 cpm
11.0 12.5	05/16/93 10:35	N/A	18	HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, NO PLASTICITY, (5Y, 5/1) GRAY, SILTY CLAY, ALONG CLEAVAGE PLANES	ML	3.0	PID=1.4 ppm BT=40-80 cpm
12.5 15.0	115377 05/16/93 10:35	N/A	30	SAA, SOME THIN MOIST SILTY ZONES	ML	3.0	PID=1.4 ppm BT=40-80 cpm
17.0	05/16/93 00:00	N/A	N/A	BOTTOM OF BORING AT 17 FEET	N/A	N/A	

NOTES:

10:45 pushed shelby tube from 15 to 17 feet / sample
115378

BACKGROUND READINGS: MT = 1.4 PPM, BETA/GAMMA = 40-80
CPM

Boring Contractor: PENNSYLVANIA DRILLING CO
Driller: DON SMITH, ROBERT YOST

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 11039				COORDINATES: NORTH 482146.04 EAST 1379772.85				DATE: 19-MAY-93			
GROUND ELEVATION: 589.1				GWL: Depth Date/Time				DATE STARTED: 19-MAY-93			
ENGINEER/GEOLOGIST: A COMO				Depth Date/Time				DATE COMPLETE: 19-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER											
D E P T H	S A M P L E	D A T E	T I M E	B L O W S P E E N O N	R E C O V R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS	
1.0	05/19/93 09:10	N/A	12	VERY HARD, (2.5Y, 4/4) OLIVE BROWN, SILTY CLAY, SLIGHT PLASTICITY, SOME GRAVEL, DRY					CL	4.5	PID=1.0 ppm BI=0-50 cpm
1.0 2.5	05/19/93 09:10	N/A	18	BLACK ROOFING SHINGLES WITH SOME (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, BETWEEN THEM, TAR					N/A	N/A	PID=2.5 ppm BI=200-250 cpm
2.5 5.0	115384 05/19/93 09:10	N/A	30	SAA, DRY					N/A	N/A	PID=2.5 ppm BI=200-250 cpm
5.0 7.5	05/19/93 09:30	N/A	N/A	NO RECOVERY					N/A	N/A	
7.5 10.0	05/19/93 09:30	N/A	N/A	NO RECOVERY					N/A	N/A	
10.0 12.0	05/19/93 10:35	8 12 18 18	12	HARD, (2.5Y 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, LOW PLASTICITY, SOME (5Y, 5/1) GRAY CLAY ALONG CLEAVAGE PLANES, DRY					ML	3.0	PID=1.0 ppm BI=0-50 cpm
12.0 14.0	115385 05/19/93 10:45	7 12 18 20	24	SAA, DRY @10:50 DROVE SHELBY TUBE FROM 14.0' TO 16.0' SAMPLE NO. 115386					ML	3.0	PID=1.0 ppm BI=0-50 cpm
16.0	05/19/93 00:00	N/A	N/A	BOTTOM OF BORING = 16 FEET					N/A	N/A	
NOTES: SOIL BORING USING CME SAMPLER TO 10' THEN USED 3" SPLIT SPOON TO 14'/ PUSHED SHELBY TUBE FROM 14' TO 16'. BACKGROUND READINGS: MT = 1 PPM, BETA/GAMMA = 0-50 CPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: DON SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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February 18, 1994
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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION									
BORING NUMBER: 11040					COORDINATES: NORTH 482181.43 EAST 1379718.94									
GROUND ELEVATION: 589.4					GWL: Depth	Date/Time			DATE STARTED: 20-MAY-93					
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time			DATE COMPLETE: 20-MAY-93					
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER														
D E P T H	S A M P L E	D A T E	T I M E	B L O C K N O N E	R E S T R U C T U R E S P L E Y	I N C O V E R E S	S U Y S M C B S O L	T S F	REMARKS					
2.5		05/20/93 09:25	N/A	30	VERY HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHT PLASTICITY, SOME (5Y, 3/1) VERY DARK GRAY, SILTY CLAY, SOME GRAVEL, PIECES OF ORGANIC MATERIAL, DRY					CL 4.5 PID=.3 ppm BR=0-50 cpm				
2.5	115392 05/20/93 09:25	N/A	30	HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN AND (5Y, 4/3) OLIVE SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, DRY, FEW PIECES OF PLASTIC AND WOOD					CL 2 PID=.3 ppm BR=0-50 cpm					
5.0	05/20/93 09:35	N/A	30	SAA					CL 2 PID=.3 ppm BR=0-50 cpm					
7.5	05/20/93 09:35	N/A	12	FIRM, (5Y, 4/1) DARK GRAY, SILTY CLAY, NO PLASTICITY, DRY					CL 1.5 PID=.3 ppm BR=0-50 cpm					
8.5	05/20/93 09:35	N/A	0	NO RECOVERY					N/A N/A					
10.0	05/20/93 10:00	N/A	30	HARD, (5Y, 4/1) DARK GRAY, SILTY CLAY, SLIGHT PLASTICITY, SOME (5Y, 4/3) OLIVE SILTY CLAY, DRY SOME (2.5Y, 5/4) LIGHT OLIVE BROWN CLAYEY SILT					CL 3 PID=.3 ppm BR=0-50 cpm					
12.5	115393 05/20/93 10:00	N/A	30	HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, SOME (5Y, 5/1) GRAY SILTY CLAY ALONG CLEAVAGE PLANES, LOW PLASTICITY, DRY					ML 2 PID=.3 ppm BR=0-50 cpm					
15.0	05/20/93 10:30	N/A	30	HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN CLAYEY SILT, (5Y, 5/1) GRAY, SILTY CLAY ALONG CLEAVAGE PLANES, NO PLASTICITY, FEW PIECES OF SMALL GRAVEL, DRY, SOME THIN MOIST LENSES					ML 4.5 PID=.3 ppm BR=0-50 cpm					
17.5	05/20/93 10:30	N/A	30	HARD, (2.5Y, 5/3) LIGHT OLIVE BROWN AND (5Y, 5/1) GRAY, CLAYEY SILT, SLIGHT PLASTICITY, SOME SMALL LIMESTONE GRAVEL, DRY, IRON STAINING ON CLEAVAGE PLANES					ML 4 PID=.3 ppm BR=0-50 cpm					
20.0	05/20/93 10:50	N/A	12	SAA					N/A 4 PID=.3 ppm BR=0-50 cpm					
21.0	05/20/93 10:50	N/A	18	FIRM, (5Y, 4/1) DARK GRAY, SILTY CLAY, MEDIUM PLASTICITY, SMALL PIECES OF GRAVEL, DRY, THIN WELL GRADED, WET SAND LENSES					CL 2 PID=.3 ppm BR=0-50 cpm					
NOTES: SOIL BORING USING CME SAMPLER. PUSHED SHELBY TUBE FROM 15.0' TO 17.0'. BACKGROUND READINGS: MT = .3 PPM, BETA/GAMMA = 0-50 CPM														
Boring Contractor: PENNSYLVANIA DRILLING CO Driller: DON SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable														

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11040					COORDINATES: NORTH 482181.43 EAST 1379718.94					
GROUND ELEVATION: 589.4					GWL: Depth	Date/Time		DATE STARTED: 20-MAY-93		
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 20-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER										
D E P T H	S A M P L E	D A T E E N	B L O W N	S A C P L E	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS
22.5 25.0	05/20/93 10:50	N/A		30	SAA			CL	2	PID=.3 ppm BG=0-50 cpm
25.0 27.5	05/20/93 14:00	N/A		30	FIRM, (5Y, 4/1) DARK GRAY, SILTY CLAY, MEDIUM PLASTICITY, GRAVEL, MOIST			CL	1.5	PID=.3 ppm BG=0-50 cpm
27.5 30.0	05/20/93 14:00	N/A		30	SAA, MOIST			CL	1.5	PID=.3 ppm BG=0-50 cpm
30.0 32.5	05/20/93 15:40	N/A		30	FIRM, (5Y, 4/1) DARK GRAY, CLAYEY SILT, SLIGHT PLASTICITY, SOME (2.5Y, 5/2) GRAYISH BROWN, SILTY CLAY, SOME SMALL GRAVEL, DRY, SOME MOIST THIN WELL GRADED SAND LENSES			ML	2	PID=.3 ppm BG=0-50 cpm
32.5 35.0	05/20/93 15:40	N/A		30	SAA			ML	2	PID=.3 ppm BG=0-50 cpm
35.0 37.5	115396 05/20/93 16:00	N/A		30	SAA			ML	4.5	PID=.3 ppm BG=0-50 cpm
37.5 40.0	115397 05/20/93 16:00	N/A		30	SAA			ML	4.5	PID=.3 ppm BG=0-50 cpm
40.0	05/20/93 00:00	N/A	N/A		BOTTOM OF BORING = 40 FEET			N/A	N/A	
NOTES: SOIL BORING USING CME SAMPLER. PUSHED SHELBY TUBE FROM 15.0' TO 17.0'. BACKGROUND READINGS: MT = .3 PPM, BETA/GAMMA = 0-50 CPM										Boring Contractor: PENNSYLVANIA DRILLING CO Driller: DON SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 11041					COORDINATES: NORTH 482213.71 EAST 1379682.69			DATE: 19-MAY-93		
GROUND ELEVATION: 589.7					GWL: Depth	Date/Time		DATE STARTED: 19-MAY-93		
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 19-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER										
D E P T H	S A M P L E E	D A T E E N	B L O W M O N	S A M P L E O N	R E C O V E R Y	I N C H E R Y	S U S M C B S O L	T S F	REMARKS	
2.5	115389 05/19/93 13:30	N/A	30	FIRM (2.5Y, 4/4) OLIVE BROWN, CLAYEY SILT, NO PLASTICITY, SOME GRAVEL, ORGANIC MATERIAL, DRY, SOME STYRAFOAM AND WHITE PLASTIC				ML	2	PID=0 ppm BG=0-50 cpm
2.5 5.0	05/19/93 13:30	N/A	30	FIRM (2.5Y, 5/3) OLIVE AND (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, FEW PIECES OF GRAVEL, DRY				CL	2	PID=0 ppm BG=0-50 cpm
5.0 7.5	05/19/93 13:45	N/A	30	FIRM (2.5Y, 5/3) OLIVE AND (2.5Y, 5/6) LIGHT OLIVE BROWN SILTY CLAY, HIGH PLASTICITY, FEW ORGANIC PIECES, MOIST, SOME (5Y, 5/1) GRAY CLAY				CL	1.25	PID=0 ppm BG=0-50 cpm
7.5 10.0	05/19/93 13:45	N/A	30	SAA, MOIST				CL	1.25	PID=0 ppm BG=0-50 cpm
10.0 12.0	05/19/93 14:00	N/A	24	FIRM (5Y, 4/1) DARK GRAY, SILTY CLAY, MEDIUM PLASTICITY, SOME (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, MOIST				CL	1	PID=0 ppm BG=0-50 cpm
12.0 12.5	05/19/93 14:00	N/A	6	HARD (2.5Y, 5/6) LIGHT OLIVE, BROWN CLAYEY SILT, SLIGHTLY PLASTICITY, SOME (5Y, 5/1) GRAY CLAY ON CLEAVAGE PLANES, DRY				ML	2	PID=0 ppm BG=0-50 cpm
12.5 15.0	110410 05/19/93 14:00	N/A	30	SAA, DRY				ML	2	PID=0 ppm BG=0-50 cpm
15.0 17.0	115391 05/19/93 14:10	N/A	N/A	PUSHED SHELBY TUBE FROM 15' TO 17'				N/A	N/A	
17.0	05/19/93 00:00	N/A	N/A	BOTTOM OF BORING = 17 FEET				N/A	N/A	
NOTES: PUSHED SHELBY TUBE FROM 15' TO 17'. USED CME SAMPLER FROM 0.0' TO 15.0'. BACKGROUND READINGS: MT = 0 PPM, BETA/GAMMA = 0-50 CPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: DON SMITH, SAM SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1718					COORDINATES: NORTH 482144.49 EAST 1379619.44			DATE: 31-JUL-91	
GROUND ELEVATION: 587.5					GWL: Depth	Date/Time		DATE STARTED: 31-JUL-91	
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time		DATE COMPLETE: 07-AUG-91	
DRILLING METHOD: AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S A M P L E O N	T I M E E E	R E C O V E R Y	I N C H E S	U S M C B S O L	T S F	REMARKS
1.5	067265 07/31/91 15:00	14 29 33	14	V. DENSE, LIGHT YELLOWISH, BROWN (10YR, 6/4) SILTY CLAY TRACE GRAVEL & TRACE SAND, NO PLASTICITY, DRY.	CL	N/A	PID=0 ppm $\alpha=150$ ppm $\beta\Gamma=0$ cpm		
1.5 3.0	067266 07/31/91 15:05	14 17 19	18	DENSE, BROWN, (10YR, 5/3) SILTY CLAY, SOME GRAVEL, TRACE SAND, NO PLASTICITY, DRY.	CL	N/A	PID=0 ppm $\alpha=150$ ppm $\beta\Gamma=0$ cpm		
3.0 4.5	067267 07/31/91 15:10	19 24 23	18	DENSE, BROWN, (10YR, 5/3) SILTY CLAY, SOME GRAVEL, TRACE SAND, NO PLASTICITY, DRY.	CL	N/A	PID=0 ppm $\alpha=150$ ppm $\beta\Gamma=0$ cpm		
4.5 6.0	067268 07/31/91 15:15	12 19 21	16	MED. DENSE, LIGHT YELLOWISH BROWN (10YR, 6/4) SILTY CLAY, SOME GRAVEL, NO PLASTICITY, DRY. V. STIFF (10YR, 5/4) YELLOWISH BROWN SILTY CLAY, SOME GRAVEL SOME SAND MED. PLASTICITY, SL. MOIST.	CL CL	N/A 2.5	PID=0 ppm $\alpha=150$ ppm $\beta\Gamma=0$ cpm		
6.0 7.5	067269 07/31/91 15:20	9 11 10	16	FIRM DARK GRAY TO YELLOWISH BROWN (10YR, 4/1 TO 10YR, 5/8) SILTY CLAY, SOME SAND, SOME GRAVEL, MED. PLASTICITY, MOIST.	CL	.75	PID=0 ppm $\alpha=150$ ppm $\beta\Gamma=0$ cpm		
7.5 9.0	067271 07/31/91 15:25	6 7 9	18	SOFT OLIVE (5Y, 4/3) CLAY, TRACE CLAY, MED. PLASTICITY, MOIST.	CL	.25	PID=0 ppm $\alpha=150-200$ ppm $\beta\Gamma=0$ cpm		
9.0 10.5	067274 08/01/91 08:30	6 8 9	17	SOFT OLIVE (5Y, 4/3) CLAY, TRACE CLAY, MED. PLASTICITY, MOIST, PUMICE.	CL	.5	PID=0 ppm $\alpha=150$ ppm $\beta\Gamma=0$ cpm		
10.5 12.0	067276 08/01/91 08:35	10 9 11	18	SOFT OLIVE DARK GRAY TO OLIVE, (2.5Y, 4/1 TO 2.5Y, 4/3) CLAY, TRACE SAND, MED. TO HIGH PLASTICITY, V. MOIST.	CL	.5	PID=0 ppm $\alpha=150$ ppm $\beta\Gamma=0$ cpm		
12.0 13.5	067277 08/01/91 08:40	11 16 18	18	SOFT OLIVE, DARK GRAY TO OLIVE, 2.5Y, 4/1 TO 2.5Y, 4/3) CLAY TRACE SAND, MED. TO HIGH PLAS., V. MOIST, 12.75-FIRM, DARK YELLOWISH BROWN TO GRAY 10YR, 4/6 TO 10YR, 5/1 SILTY CLAY, LOW TO MED PLAS., MOIST.	CL CL	.5 1.5	PID=0 ppm $\alpha=150$ ppm $\beta\Gamma=0$ cpm		
13.5 15.0	067278 08/01/91 08:45	18 22 50	18	VERY HARD, BROWN MOTTLED (10YR, 5/3) SILTY CLAY, SOME GRAVEL, SOME SAND, LOW PLASTICITY, MOIST.	CL	4.5	PID=0 ppm $\alpha=150-200$ ppm $\beta\Gamma=0$ cpm		
15.0 16.5	067279 08/01/91 09:00	43 50 58	N/A	VERY HARD, BROWN MOTTLED (10YR, 5/3) SILTY CLAY, SOME GRAVEL, SOME SAND, LOW PLASTICITY, MOIST.	CL	4.5	PID=0 ppm $\alpha=150-200$ ppm $\beta\Gamma=0$ cpm		
NOTES:									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION					
BORING NUMBER: 1719					COORDINATES: NORTH 482215.57 EAST 1379699.18			DATE: 07-AUG-91		
GROUND ELEVATION: 590.1					GWL: Depth	Date/Time		DATE STARTED: 07-AUG-91		
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time		DATE COMPLETE: 10-AUG-91		
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	D A T E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S		S U Y S M B S O L	T S F	REMARKS
1.5	067285 08/07/91 14:30	4 14 19	18	STIFF, BROWN, (10YR 4/3) SILTY CLAY, SOME ORGANICS, TRACE COBBLES, LOW PLASTICITY, MOIST. .75'-V. HARD, LIGHT YELLOWISH BROWN, (10YR, 6/4) SILTY CLAY, TRACE COBBLES, DRY.	CL CL	2.0 4.5	PID=0 ppm α =80 ppm $\beta\Gamma$ =0 cpm			
1.5 3.0	067286 08/07/91 14:35	52 64 4	7	V. DENSE, BROWN, (10YR, 4/3) TRACE SAND, SILTY STYRAPHOME INSTALLATION, SL. MOIST.	ML	N/A	PID=<2.0 ppm α =100-150 ppm $\beta\Gamma$ =0 cpm			
3.0 4.5	067287 08/07/91 14:40	13 13 15	16	STIFF DARK GRAY (2.5Y, 4/1) SILTY CLAY, TRACE SAND & TRACE GRAVEL, MED PLAST, MOIST.	CL	2.0	PID=0 ppm α =80-120 ppm $\beta\Gamma$ =0 cpm			
4.5 6.0	067288 08/07/91 14:45	14 13 11	0	NO RECOVERY	N/A	N/A				
6.0 7.5	067289 08/07/91 15:15	13 21 14	18	DENSE, DARK YELLOWISH BROWN (10YR, 4/4) SILT, TRACE SAND, TRACE GRAVEL, MOIST. 6.75'-SOFT, DARK GRAY (2.5Y, 4/1) CLAY, ORGANICS TRACE SAND, MED PLASTICITY, MOIST.	ML CL	N/A .5	PID=1-5 ppm α =80-150 ppm $\beta\Gamma$ =0 cpm			
7.5 9.0	067290 08/07/91 15:20	13 15 19	0	NO RECOVERY	N/A	N/A				
9.0 10.5	067291 08/07/91 15:25	13 19 21	0	NO RECOVERY	N/A	N/A				
10.5 12.0	067292 08/07/91 15:30	19 15 18	8	SOFT, OLIVE GRAY (2.5Y, 4/2) CLAY, TRACE SAND AND TRACE GRAVEL, MED PLASTICITY, MOIST.	CL	.5	PID=<2 ppm α =80-150 ppm $\beta\Gamma$ =0 cpm			
12.0 13.5	067293 08/08/91 08:30	43 13 15	3	M. DENSE, BROWN (10YR, 5/3) SILTY CLAY, SOME GRAVEL, LOW TO MED PLASTICITY, MOIST TO WET. * UNABLE TO USE PENTROMETER *	CL	N/A	PID=<2.0 ppm α =80-100 ppm $\beta\Gamma$ =0 cpm			
13.5 15.0	067294 08/08/91 08:40	11 13 24	14	DENSE, DENSE BROWN (10YR, 5/3) GRAVELLY CLAY, TRACE COBBLES, MED PLAST, WET, ORGANICS. * UNABLE TO USE PENETROMETER *	CL	N/A	PID=0-1 ppm α =80-100 ppm $\beta\Gamma$ =0 cpm			
15.0 16.5	067295 08/08/91 08:50	13 44 50/5"	14	HARD, BROWN, (10YR, 5/3) GRAVELLY CLAY, SOME ORGANICS, MED PLASTICITY, WET. 15.75'-V. HARD, BROWN TO GRAY (10YR 5/3 TO 10YR, 5/1) SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, MOIST.	CL CL	4.0 4.5	PID=0 ppm α =80-100 ppm $\beta\Gamma$ =0 cpm			
16.5 18.0	067296 08/08/91 08:55	38 47 50/5"	14	HARD, BROWN (10YR, 5/3) GRAVELLY CLAY, SOME ORGANICS, MED PLAST, WET. - 15.75 - V. HARD, BROWN TO GRAY (10YR 5/3 TO 10YR, 5/1) SILTY CLAY, TRACE GRAVEL, LOW PLAST, MOIST, NO GRAY (10YR, 5/1), SL MOIST.	CL	4.5	PID=0 ppm α =80-100 ppm $\beta\Gamma$ =0 cpm			
NOTES:										
<p style="text-align: center;">SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>										

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PROJECT NUMBER: 602 3.7				PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1719				COORDINATES: NORTH 482215.57 EAST 1379699.18 DATE: 07-AUG-91				
GROUND ELEVATION: 590.1				GWL: Depth Date/Time DATE STARTED: 07-AUG-91				
ENGINEER/GEOLOGIST: J. LEAR				Depth Date/Time DATE COMPLETE: 10-AUG-91				
DRILLING METHOD: AUGER								
D E P T H	S A M P L E	D A T E E E	B L O W S O N	R E C O V E R Y	I N C H E S	S U S C B S O L	T S F	REMARKS
18.0	067300 08/08/91 09:00	29 35 48		16	HARD, BROWN (10YR, 5/3) GRAVELLY CLAY, SOME ORGANICS, MED PLAST, WET. - 15.75 - V. HARD, BROWN TO GRAY (10YR, 5/3 TO 10YR, 5/1) SILTY CLAY, TRACE GRAVEL, LOW PLAST, MOIST, NO GRAY (10YR, 5/1), SL MOIST, BROWN MOTTLED (10YR, 5/3).	CL	4.5	PID=0 ppm α =80-100 ppm BT=0 cpm
NOTES:								SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1720					COORDINATES: NORTH 482215.72 EAST 1379783.27			DATE: 10-AUG-91			
GROUND ELEVATION: 589.6					GWL: Depth	Date/Time	DATE STARTED: 10-AUG-91				
ENGINEER/GEOLOGIST: J. LEAR			Depth		Date/Time		DATE COMPLETE: 10-AUG-91				
DRILLING METHOD: AUGER											
DEPTH	SAMPLE	DATE	TIME	BORING	BLADE	SAW	SCREW	INCUBUS	SYNTHETIC SUBSTRATE CERAMIC SOLUBLE SOIL		
H	E	M	E	N	O	M	P	R	T S F		
1.5	067305 08/10/91 14:00	3 7	15	15	M. DENSE, DARK YELLOWISH BROWN, (10YR, 4/4) CLAYEY SILT, TRACE SAND, GLASS, PLASTIC, MOIST.	ML	N/A	PID=0 ppm $\alpha=100$ ppm $\delta\Gamma=0$ cpm			
1.5 3.0	067306 08/10/91 14:05	13 15 15	18	18	HARD, BROWN (10YR, 5/3) SILTY CLAY, TRACE GRAVEL PLASTIC, WOOD, BRICK, LOW PLASTICITY, SL. MOIST.	CL	4.0	PID=0 ppm $\alpha=100-150$ ppm $\delta\Gamma=0$ cpm			
3.0 4.5	067307 08/10/91 14:10	18 13 17	18	18	FIRM, OLIVE (2.5Y, 4/3) SILTY CLAY, TRACE GRAVEL, MED. PLASTICITY, MOIST.	CL	1.5	PID=0 ppm $\alpha=80-100$ ppm $\delta\Gamma=0$ cpm			
4.5 6.0	067308 08/10/91 14:15	10 12 12	18	18	FIRM, OLIVE (2.5Y, 4/3) SILTY CLAY, TRACE GRAVEL, MED. PLASTICITY, MOIST.	CL	1.5	PID=0 ppm $\alpha=80-100$ ppm $\delta\Gamma=0$ cpm			
6.0 7.5	067309 08/10/91 15:15	19 9 8	16	16	FIRM, OLIVE, (2.5Y, 4/3) SILTY CLAY, TRACE GRAVEL, MED. PLASTICITY, MOIST, PLASTIC, PAPER, BRICK.	CL	1.5	PID=0 ppm $\alpha=80-100$ ppm $\delta\Gamma=0$ cpm			
7.5 9.0	067310 08/10/91 15:20	7 8 10	18	18	FIRM, OLIVE GRAY, (2.5Y, 4/2) CLAY, TRACE GRAVEL, PUMICE, MED. PLASTICITY, MOIST.	CL	.75	PID=0 ppm $\alpha=80-100$ ppm $\delta\Gamma=0$ cpm			
9.0 10.5	067312 08/10/91 15:25	23 20 21	18	18	HARD, YELLOWISH BROWN TO GRAY, (10YR, 5/8 TO 10YR, 6/1) SILTY CLAY, TRACE GRAVEL, SL. MOIST.	CL	4.0	PID=0 ppm $\alpha=80-100$ ppm $\delta\Gamma=0$ cpm			
10.5 12.0	067314 08/10/91 15:30	20 21 22	18	18	HARD, YELLOWISH BROWN TO GRAY, (10YR, 5/8 TO 10YR, 6/1) SILTY CLAY, TRACE GRAVEL, SL. MOIST.	CL	4.0	PID=0 ppm $\alpha=80-100$ ppm $\delta\Gamma=0$ cpm			
12.0 13.5	067315 08/10/91 15:35	19 17 20	18	18	HARD, YELLOWISH BROWN TO GRAY, (10YR, 5/8 TO 10YR, 6/1) SILTY CLAY, TRACE GRAVEL, SL. MOIST.	CL	4.0	PID=0 ppm $\alpha=80-100$ ppm $\delta\Gamma=0$ cpm			
NOTES:											
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1721					COORDINATES: NORTH 482136.40 EAST 1379785.34				
GROUND ELEVATION: 588.6					GWL: Depth	Date/Time		DATE STARTED: 26-JUL-91	
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time		DATE COMPLETE: 28-JUL-91	
DRILLING METHOD: AUGER									
D E P T H	S A M P L E	D E E E	T M E E	B L O W S L O N	S A M P L E R E C O V P L E R Y	I N C O H E S	S U S M C B S O L	T S F	REMARKS
1.5	067228 07/26/91 15:00	17 39 28	18	V HARD, BROWN (10YR, 5/3) SILTY CLAY, SOME COBBLES, V LOW PLASTICITY, DRY.	CL	4.5	PID=0 ppm α =150-200 ppm $\delta\Gamma$ =2 cpm		
1.5 3.0	067229 07/26/91 15:05	14 21 19	8	V HARD, BROWN (10YR, 5/3) SILTY CLAY, SOME COBBLES, V LOW PLASTICITY, DRY, HARD, SL. MOIST.	CL	3.0	PID=0 ppm α =100 ppm $\delta\Gamma$ =0 cpm		
3.0 4.5	067230 07/26/91 15:10	17 14 11	12	HARD, LIGHT OLIVE BROWN (2.5Y, 5/4) SILTY CLAY, TRACE GRAVEL, LOW TO MED PLASTICITY, MOIST.	CL	2.5	PID=1-3 ppm α =100 ppm $\delta\Gamma$ =0 cpm		
4.5 6.0	067231 07/26/91 15:15	10 9 7	0	NO RECOVERY	N/A	N/A			
6.0 7.5	067232 07/26/91 16:00	4 10 12	0	NO RECOVERY	N/A	N/A			
7.5 9.0	067233 07/26/91 16:05	14 15 17	5	SOFT, VERY DARK GRAY, (5Y, 3/3) SILTY CLAY, TRACE SAND, MED PLASTICITY, MOIST TO WET.	CL	.50	PID=1-3 ppm α =100 ppm $\delta\Gamma$ =0 cpm		
9.0 10.5	067234 07/26/91 16:10	10 17 18	16	SOFT, OLIVE GRAY, (5Y, 4/2) SILTY CLAY, TRACE SAND MED PLASTICITY, MOIST, FIRM, VERY DARK GRAY (5Y, 3/3) SILTY CLAY, TRACE SAND MED PLASTICITY, MOIST.	CL CL	.25 1.0	PID=1-3 ppm α =100 ppm $\delta\Gamma$ =0 cpm		
10.5 12.0	067235 07/26/91 16:15	20 22 21	0	NO RECOVERY	N/A	N/A			
12.0 13.5	067236 07/27/91 10:30	21 20 24	16	FIRM, OLIVE GRAY (5Y, 4/2) SILTY CLAY MED PLASTICITY, MOIST, 12.6-FIRM YELLOWISH BROWN (10YR, 5/6) SILTY CLAY TRACE SAND, TRACE GRAVEL, SL. MOIST, LOW PLASTICITY.	CL CL	1.5 1.5	PID=1.0 ppm α =80-100 ppm $\delta\Gamma$ =0 cpm		
13.5 15.0	067237 07/27/91 10:35	13 10 11	8	FIRM, GRAY TO YELLOWISH BROWN (10YR, 5/1 TO 10YR, 5/6) MOTTLED SILTY CLAY, TRACE SAND & GRAVEL, MOIST.	CL	1.0	PID=0 ppm α =80 ppm $\delta\Gamma$ =0 cpm		
15.0 16.5	067238 07/28/91 10:30	3 7 10	10	FIRM, BROWN (10YR, 5/3) SILTY CLAY, TRACE SAND, TRACE GRAVEL, MOIST, LOW PLASTICITY.	CL	2.0	PID=0 ppm α =80 ppm $\delta\Gamma$ =0 cpm		
NOTES:									
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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION					
BORING NUMBER: 1722					COORDINATES: NORTH 482114.81 EAST 1379739.45					
GROUND ELEVATION: 588.4					GWL: Depth	Date/Time			DATE STARTED: 29-JUL-91	
ENGINEER/GEOLOGIST: J. LEAR					Depth	Date/Time			DATE COMPLETE: 30-JUL-91	
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S A M P L E O N	T I M E E E	R E C O V R Y	I N C H E R E S		S Y U S M C B S O L	T S F	REMARKS
1.5	067249 07/29/91 17:00	9 37 46	16	V. DENSE, BROWNISH YELLOW (10YR, 6/4) GRAVELLY CLAY, SOME SAND, V. LOW PLASTICITY, SOME ORGANIC, V. DRY.				CL	N/A	PID=0 ppm α =150-200 ppm BT=0 cpm
1.5 3.0	067250 07/29/91 17:05	27 23 12	14	STYRAPHONE & WOODCHIPS - 1.75' - V. HARD, DARK YELLOWISH BROWN TO DARK GRAY (10YR, 4/4) TO (10YR, 4/1) SILTY CLAY, SOME GRAVEL, LOW PLASTICITY, DAMP.				CL	4.5	PID=10-50 ppm α =8000 ppm BT=20 cpm
3.0 4.5	067251 07/29/91 17:10	36 34 29	5	HARD, OLIVE GRAY (5Y, 4/2) SILTY CLAY, SOME GRAVEL, LOW PLASTICITY TO MED. PLASTICITY, SL. MOIST.				CL	3.75	PID=5-10 ppm α =10000-1900 ppm BT=50-100 cpm
4.5 6.0	067252 07/29/91 17:15	22 19 43	0	NO RECOVERY				N/A	N/A	
6.0 7.5	067253 07/30/91 10:00	50	6	DARK OLIVE GRAY (5Y, 3/2) MED, SATURATED, 6.4'-LIMESTONE, AUGERING TO 8.0 FT.				N/A	N/A	PID=5-10 ppm α =15000 ppm BT=50-100 cpm
8.0 9.5	067254 07/30/91 14:10	14 28 17	0	NO RECOVERY				N/A	N/A	
9.5 11.0	067255 07/30/91 14:20	13 15 18	0	NO RECOVERY, AUGERING TO 11.0'				N/A	N/A	
11.0 12.5	067256 07/30/91 15:30	6 6 13	14	M. DENSE, LIGHT YELLOWISH BROWN, (10YR, 6/4) SILT, SOME COBBLES, DRY, VERY STIFF, YELLOWISH BROWN TO DARK GRAY (10YR, 4/6) TO (10YR, 4/2) SILTY CLAY, LOW TO MED. PLASTICITY, MOIST.				ML CL	N/A 2.5	PID=0 ppm α =150 ppm BT=0 cpm
12.5 14.0	067258 07/30/91 15:45	10 11 15	16	M. DENSE, LIGHT YELLOWISH BROWN (10YR, 6/4) SILT, SOME COBBLES, TRACE SAND, DRY.				ML	N/A	PID=0 ppm α =150 ppm BT=0 cpm
14.0 16.5	067259 07/30/91 15:40	25 27 28	15	HARD, YELLOWISH BROWN, TO GRAY (10YR, 4/6 TO 10YR, 5/1) SILTY CLAY, TRACE GRAVEL, LOW PLASTICITY, SL. MOIST.				CL	4.0	PID=0 ppm α =150 ppm BT=0 cpm
NOTES:										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1808					COORDINATES: NORTH 482142.91 EAST 1379622.56			DATE: 27-AUG-91			
GROUND ELEVATION: 587.2					GWL: Depth	Date/Time		DATE STARTED: 27-AUG-91			
ENGINEER/GEOLOGIST: G. MARSHALL					Depth	Date/Time		DATE COMPLETE: 27-AUG-91			
DRILLING METHOD: AUGER											
D E P T H	S A M P L E	D A T E E N O N	T I M E E R Y	B L O W S P L E	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS	
1.5	067392 08/27/91 17:49	4 4 6	16	DARK GRAYISH BROWN (10YR, 4/2) CLAY, SILTY WITH TRACE OF GRAVEL, ORGANICS (GRASS & ROOTS), DRY, NO PLASTICITY.					CL	4.5	PID=0 ppm α =0 ppm BT=0 cpm
1.5 3.0	067393 08/27/91 17:58	5 6 8	14	DARK BROWN (10YR, 3/3) CLAY, SILTY, SOME SAND & GRAVEL, ROOTS, DRY, NO PLASTICITY.					CL	2.5	PID=0 ppm α =0 ppm BT=0 cpm
3.0 4.5	067394 08/27/91 18:15	15 16 16	14	YELLOWISH BROWN (10YR, 5/6) CLAY, SILTY, SOME SAND & GRAVEL, DRY, NO PLASTICITY.					CL	>4.5	PID=0 ppm α =0 ppm BT=0 cpm
4.5 6.0	067395 08/27/91 18:32	13 12 16	13	DARK YELLOWISH BROWN (10YR, 4/4) MODLE WITH A DARK RED (2.5YR, 3/6) CLAY, SILTY WITH SOME SAND & GRAVEL, DRY, NO PLASTICITY.					CL	1.0	PID=0 ppm α =0 ppm BT=0 cpm
6.0 7.5	067404 08/27/91 19:00	13 12 8	18	LIGHT OLIVE BROWN (2.5YR, 5/4) CLAY, SILTY WITH SOME SAND & GRAVEL, MOIST, MED PLASTICITY.					CL	1.0	PID=0 ppm α =0 ppm BT=0 cpm
7.5 9.0	067396 08/27/91 19:15	5 6 9	18	OLIVE (5Y, 4/3) CLAY, TRACE GRAVEL, MOIST, HIGH PLASTICITY.					CL	.75	PID=0 ppm α =0 ppm BT=0 cpm
9.0 10.5	067397 08/27/91 19:30	3 5 5	18	OLIVE GRAY (5Y, 4/2) CLAY, SOME SAND & GRAVEL, MOIST, MED PLASTICITY.					CL	2.0	PID=0 ppm α =0 ppm BT=0 cpm
10.5 12.0	067405 08/27/91 19:41	5 6 7	18	OLIVE (5Y, 4/4) CLAY, SOME SAND AND GRAVEL, MOIST, MED PLASTICITY.					CL	1.25	PID=0 ppm α =0 ppm BT=0 cpm
12.0 13.5	067399 08/27/91 20:11	8 10 15	18	DARK OLIVE GRAY (5Y, 3/2) CLAY, SOME SAND & GRAVEL, MOIST, MED PLASTICITY.					CL	1.75	PID=0 ppm α =0 ppm BT=0 cpm
13.5 15.0	067406 08/27/91 20:48	9 13 23	18	BROWN (10YR, 5/3) CLAY, SILTY, SOME SAND & GRAVEL, NO PLASTICITY, MOIST.					CL	>4.5	PID=0 ppm α =0 ppm BT=0 cpm
15.0 16.5	067401 08/27/91 21:30	28 41 47	18	BROWN (10YR, 5/3) CLAY, SOME SAND AND GRAVEL, MOIST, LOW PLASTICITY.					CL	>4.5	PID=0 ppm α =0 ppm BT=0 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1888					COORDINATES: NORTH 482124.84 EAST 1379761.91			DATE: 23-FEB-92			
GROUND ELEVATION: 588.5					GWL: Depth	Date/Time		DATE STARTED: 23-FEB-92			
ENGINEER/GEOLOGIST: KEN MARION					Depth	Date/Time		DATE COMPLETE: 23-FEB-92			
DRILLING METHOD: AUGER											
DEPTH	SAMPLE	DATE	BLOWS	RECOVERY	INCHES			SUSY SMB CBL SOL	TTSF	REMARKS	
1.5	067714 02/23/92 13:50	8 15 27	14	VERY STIFF LIGHT OLIVE BROWN (2.5Y, 5/4) GRAVELLY CLAY WITH SAND AND ORGANIC MATTER (IE ROOT STEMS), MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	4.0	PID=0 ppm $\alpha=100$ ppm $\delta\Gamma=0$ cpm
1.5 3.0	067715 02/23/92 13:55	13 28 47	15	VERY STIFF LIGHT OLIVE BROWN (2.5Y, 5/3) GRAVELLY CLAY WITH SAND, A LITTLE YELLOWISH BROWN (10YR, 5/6) WEATHERING, AND TRACE ORGANIC MATTER, MEDIUM PLASTICITY, SLIGHTLY MOIST					CL	4.0	PID=0 ppm $\alpha=100$ ppm $\delta\Gamma=0$ cpm
3.0 4.5	067716 02/23/92 14:02	13 10 16	12	STIFF OLIVE (5Y, 5/3) GRAVELLY CLAY WITH SAND, MEDIUM PLASTICITY, MOIST.					CL	1.5	PID=0 ppm $\alpha=100$ ppm $\delta\Gamma=0$ cpm
5.0 6.0	067717 02/23/92 14:38	8 5 8	18	MEDIUM STIFF OLIVE GRAY (5Y, 5/2) CLAY WITH SAND AND GRAVEL, TRACE ORGANIC MATTER, A PIECE OF STRING, MEDIUM PLASTICITY, VERY MOIST.					CL	1.0	PID=0 ppm $\alpha=400$ ppm $\delta\Gamma=0$ cpm
6.0 7.5	067718 02/23/92 14:51	8 13 19	18	VERY STIFF VERY DARK BROWN (10YR, 2/2) CLAY, LOW PLASTICITY, SLIGHTLY MOIST.					CL	3.25	PID=0 ppm $\alpha=300$ ppm $\delta\Gamma=0$ cpm
7.5 9.0	067720 02/23/92 15:40	16 18 21	18	STIFF BLACK (5Y, 2.5/1) CLAY WITH TRACE SAND AND ORGANIC MATTER, LOW PLASTICITY, SLIGHTLY MOIST					CL	2.0	PID=0 ppm $\alpha=100$ ppm $\delta\Gamma=0$ cpm
9.0 10.5	067721 02/23/92 16:00	14 15 22	18	VERY STIFF MOTTLED GRAY (5Y, 5/1) AND YELLOWISH BROWN (10YR, 5/8) CLAY, HIGH PLASTICITY, MOIST					CL	2.5	PID=0 ppm $\alpha=100$ ppm $\delta\Gamma=0$ cpm
10.5 12.0	067722 02/23/92 16:30	11 14 18	18	STIFF MOTTLED GRAY (10Y, 5/1) AND YELLOWISH BROWN (10YR, 5/8) CLAY, TRACE WOOD FRAGMENTS, PIECE OF STRING, MEDIUM PLASTICITY, MOIST. STIFF VERY DARK GRAY (5Y, 3/1) CLAY, HIGH PLASTICITY, SLIGHTLY MOIST					CL CL	1.75 1.7	PID=0 ppm $\alpha=100$ ppm $\delta\Gamma=0$ cpm
12.0 13.5	067725 02/23/92 17:20	9 9 11	18	STIFF LIGHT OLIVE BROWN (2.5Y, 5/4) CLAY WITH YELLOWISH BROWN (10YR, 5/8) AND OLIVE GRAY (5Y, 5/2) MOTTLING AND TRACE SAND, HIGH PLASTICITY, MOIST.					CL	2.0	PID=0 ppm $\alpha=100$ ppm $\delta\Gamma=0$ cpm
13.5 15.0	067726 02/23/92 17:30	11 10 17	18	STIFF LIGHT OLIVE BROWN (2.5Y, 5/4) CLAY WITH YELLOWISH BROWN (10YR, 5/8) AND OLIVE GRAY (5Y, 5/2) MOTTLING AND TRACE SAND, HIGH PLASTICITY, MOIST.					CL	2.0	PID=0 ppm $\alpha=100$ ppm $\delta\Gamma=0$ cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 602 3.6					PROJECT NAME:						
BORING NUMBER: 1889					COORDINATES: NORTH 482121.36 EAST 1379765.86						
GROUND ELEVATION: 588.3					GWL: Depth	Date/Time			DATE STARTED: 25-FEB-92		
ENGINEER/GEOLOGIST: K.MARION/C.GRUB					Depth	Date/Time			DATE COMPLETE: 25-FEB-92		
DRILLING METHOD: AUGER											
D E P T H	S A M P L E	D A T E E E	T I M E E E	B L O W S P L E O N	S A M P L E E E Y	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
1.5	067730 02/25/92 13:50	5 13 21	15	VERY STIFF (10YR, 5/4) YELLOWISH BROWN SILTY CLAY, SOME SAND & FINE TO COARSE GRAVEL, LOW PLASTICITY, SLIGHTLY MOIST, (TRACE ROOT STEMS)					CL	2.5	PID=0 ppm $\alpha=0$ ppm $BR=100$ cpm
1.5 3.0	067731 02/25/92 13:57	16 19 18	15	VERY STIFF (10YR, 5/6) YELLOWISH BROWN SILTY CLAY, SOME SAND AND GRAVEL, TRACE ORGANIC MATTER (WOOD & ROOT STEMS) PIECE OF GRAVEL SIZE BLACK (5Y, 2.5/1) ORGANIC MATTER, SLIGHTLY MOIST, LOW PLASTICITY					CL	3.5	PID=0 ppm $\alpha=0$ ppm $BR=100$ cpm
3.0 4.5	067732 02/25/92 14:04	10 9 13	10	STIFF (2.5Y, 4/4) OLIVE BROWN SANDY CLAY, SOME FINE TO COARSE GRAVEL, TRACE SILT, ORANGISH WEATHERING, MEDIUM PLASTICITY, MOIST (WOOD)					CL	1.25	PID=0 ppm $\alpha=0$ ppm $BR=120$ cpm
4.5 6.0	067733 02/25/92 14:30	8 6 11	18	MEDIUM STIFF (5Y, 4/2) OLIVE GRAY GRAVELLY CLAY, SOME SAND, TRACE GRAYISH BROWN MATERIAL, TRACE ORGANICS (IE ROOTS & WOOD) MEDIUM PLASTICITY, MOIST.					CL	.75	PID=0 ppm $\alpha=0$ ppm $BR=100$ cpm
6.0 7.5	067734 02/25/92 14:50	8 11 14	18	SOFT (2.5Y, 4/3) OLIVE SILTY CLAY, SOME SAND AND FINE TO COARSE GRAVEL, TRACE GRASS AND ROOTS MEDIUM PLASTICITY, MOIST. 7.0 FT. VERY STIFF (5Y, 3/1) VERY DARK GRAY SILTY CLAY, TRACE OF ORGANIC MATTER, LOW PLASTICITY TO NON-PLASTIC, MOIST					CL CL	.5 3.5	PID=0 ppm $\alpha=0$ ppm $BR=80-100$ cpm
7.5 9.0	067735 02/25/92 15:13	19 22 26	18	VERY STIFF (5Y, 3/1) VERY DARK GRAY SILTY CLAY, TRACE ORGANIC MATTER, MEDIUM PLASTICITY, MOIST. 8.5 FT. STIFF (5Y, 4/2) OLIVE GRAY SILTY CLAY W/ (2.5Y, 5/4) YELLOWISH BROWN MOTTLING MEDIUM TO HIGH PLASTICITY, MOIST.					CL CL	2.5 2.0	PID=0 ppm $\alpha=0$ ppm $BR=100$ cpm
9.0 10.5	067736 02/25/92 15:26	16 18 21	18	STIFF MOTTLED (5Y, 5/1) GRAY TO (10YR 5/6) YELLOWISH BROWN, VERY SILTY CLAY, TRACE ORGANICS LOW TO NON-PLASTICITY, MOIST.					CL	2.0	PID=0 ppm $\alpha=0$ ppm $BR=80-100$ cpm
10.5 12.0	067737 02/25/92 15:46	10 15 17	18	STIFF MOTTLED (5Y, 6/1) GRAY TO (10YR, 5/6) YELLOWISH BROWN VERY SILTY CLAY, TRACE ORGANICS LOW TO NO PLASTICITY, MOIST.					CL	2.0	PID=0 ppm $\alpha=0$ ppm $BR=80-100$ cpm
12.0 13.5	067738 02/25/92 16:07	17 15 14	18	VERY STIFF MOTTLED (5Y, 6/1) GRAY TO (10YR, 5/6) YELLOWISH BROWN VERY SILTY CLAY, TRACE ORGANICS, LOW TO NO PLASTICITY, MOIST. 13.0 FT. MEDIUM STIFF, 10YR, 5/6 YELLOWISH BROWN TO 2.5Y, 3/2 VERY DARK GRAYISH BROWN SILTY CLAY, LOW PLASTICITY, MOIST.					CL CL	2.25 1.0	PID=0 ppm $\alpha=0$ ppm $BR=100$ cpm
13.5 15.5	067739 02/25/92 16:20	8 14 20	24	VERY STIFF LIGHT OLIVE BROWN (2.5Y, 5/6) AND LIGHT GRAY (5Y, 6/1) SILTY CLAY WITH SAND AND TRACE ORGANIC MATTER, LOW PLASTICITY, MOIST. 14.5 FT. DENSE LIGHT OLIVE BROWN (2.5Y, 5/4) AND LIGHT GRAY (5Y, 6/1) CLAYEY SILT WITH TRACE SAND AND FINE					CL ML	2.5	PID=0 ppm $\alpha=0$ ppm $BR=100$ cpm
15.5 17.5	067740 02/25/92 16:50	32 78 53	24	SOFT OLIVE YELLOW (2.5Y, 6/6) SILTY CLAY WITH SOME SAND, LOW PLASTICITY, WET. 16.0 FT. VERY STIFF OLIVE YELLOW (2.5Y, 6/6) SILTY CLAY WITH SOME SAND AND A COUPLE PIECES OF LIMESTONE COBBLES, SLIGHTLY MOIST, LOW PLASTICITY					CL CL	.5 4.0	PID=0 ppm $\alpha=0$ ppm $BR=100$ cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1947					COORDINATES: NORTH 482108.00 EAST 1379906.05			DATE: 26-APR-93		
GROUND ELEVATION: 590.2					GWL: Depth Date/Time			DATE STARTED: 26-APR-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth Date/Time			DATE COMPLETE: 28-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E E	D A T E T I M E	B L O W S A M P L E O N	R E C O V R Y	I N C H E S Y		S Y S M C B S O L	T S F	REMARKS	
6.0	04/26/93 00:00	N/A	N/A	DESTRUCTIVE DRILLING FROM 0' TO 6'				N/A	N/A	
6.0 8.0	111639 04/26/93 14:20	N/A	N/A	SHELBY TUBE				CL	N/A	PID=0 ppm 8Γ=50 cpm
8.0 8.5	111640 04/26/93 14:40	8	6	VERY STIFF, (10YR 5/6) YELLOWISH BROWN, SILTY CLAY, LOW PLASTICITY, MOIST				CL	2.5	PID=0 ppm 8Γ=50 cpm
8.5 9.0	111640 04/26/93 14:40	10	6	SAA				CL	2.5	PID=0 ppm 8Γ=50 cpm
9.0 9.5	111640 04/26/93 14:40	13	6	SAA				CL	2.5	PID=0 ppm 8Γ=50 cpm
9.5 10.0	111640 04/26/93 14:40	13	6	SAA				CL	2.5	PID=0 ppm 8Γ=50 cpm
10.0 10.5	111641 04/26/93 16:25	4	6	VERY STIFF, (10YR, 5/4) YELLOWISH BROWN, SILTY CLAY, MOTTLED, SOME FINE SAND, LOW PLASTICITY, MOIST				CL	3.0	PID=0 ppm 8Γ=80 cpm
10.5 11.0	111641 04/26/93 16:25	8	6	SAA				CL	3	PID=0 ppm 8Γ=80 cpm
11.0 11.5	111641 04/26/93 16:25	8	6	SAA				CL	3.0	PID=0 ppm 8Γ=80 cpm
11.5 12.0	111642 04/26/93 16:30	7	6	SAA				CL	3.0	PID=0 ppm 8Γ=60 cpm
12.0 12.5	111642 04/26/93 16:30	8	6	SAA				CL	3	PID=0 ppm 8Γ=60 cpm
12.5 13.0	111642 04/26/93 16:30	8	0	NO RECOVERY				N/A	N/A	
13.0 13.5	111643 04/26/93 16:40	3	6	STIFF, (10YR, 5/4) YELLOWISH BROWN, SILTY CLAY, MOTTLED, LOW PLASTICITY, MOIST				CL	1.5	PID=0 ppm 8Γ=60 cpm
<p>NOTES: TEMPORARY WELL SET AS PER INSTRUCTIONS FROM JOHN WHITEHEAD-SEE ATTACHED DRAWING WITH FADL OF 04/27/93. BACKGROUND READINGS: BETA/GAMMA = 50 CPM, HNU = 0 PPM</p>										<p>Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL Drilling Equipment: ACKER SOIL SENTRY</p> <p>SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1947					COORDINATES: NORTH 482108.00 EAST 1379906.05			DATE: 26-APR-93			
GROUND ELEVATION: 590.2					GWL: Depth Date/Time			DATE STARTED: 26-APR-93			
ENGINEER/GEOLOGIST: J REAGAN					Depth Date/Time			DATE COMPLETE: 28-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D A T E E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS	
13.5	111643 04/26/93 16:40	10	6	SAA				CL	1.5	PID=0 ppm BT=60 cpm	
14.0	111643 04/26/93 16:40	13	6	SAA				CL	1.5	PID=0 ppm BT=60 cpm	
14.5	111644 04/26/93 16:50	6	6	STIFF, (10YR, 5/4) YELLOWISH BROWN, SILTY CLAY, MOTTLED, LOW PLASTICITY, MOIST				CL	1.5	PID=0 ppm BT=80 cpm	
15.0	111644 04/26/93 16:50	10	6	SAA				CL	1.5	PID=0 ppm BT=80 cpm	
15.5	111644 04/26/93 16:50	13	4	SAA				CL	1.5	PID=0 ppm BT=80 cpm	
16.0	111645 04/26/93 16:55	8	6	SAA				CL	1.5	PID=0 ppm BT=60 cpm	
16.5	111645 04/26/93 16:55	10	6	SAA				CL	1.5	PID=0 ppm BT=60 cpm	
17.0	111645 04/26/93 16:55	14	0	NO RECOVERY				N/A	N/A		
17.5	111646 04/26/93 17:05	8	6	SAA				CL	1.5	PID=0 ppm BT=80 cpm	
18.0	111646 04/26/93 17:05	17	6	SAA				CL	1.5	PID=0 ppm BT=80 cpm	
18.5	111646 04/26/93 17:05	24	6	SAA				CL	1.5	PID=0 ppm BT=80 cpm	
19.0	111647 04/26/93 17:15	4	6	SAA				CL	1.5	PID=0 ppm BT=80 cpm	
19.5	111647 04/26/93 17:15	8	6	SAA				CL	1.5	PID=0 ppm BT=80 cpm	
NOTES: TEMPORARY WELL SET AS PER INSTRUCTIONS FROM JOHN WHITEHEAD - SEE ATTACHED DRAWING WITH FADL OF 04/27/93. BACKGROUND READINGS: BETA/GAMMA = 50 CPM, HNU = 0 PPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL Drilling Equipment: ACKER SOIL SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 1947					COORDINATES: NORTH 482108.00 EAST 1379906.05 DATE: 26-APR-93							
GROUND ELEVATION: 590.2					GWL: Depth Date/Time DATE STARTED: 26-APR-93							
ENGINEER/GEOLOGIST: J REAGAN					Depth Date/Time DATE COMPLETE: 28-APR-93							
DRILLING METHOD: HOLLOW STEM AUGER												
D E P T H	S A M P L E	D A T E E	T I M E E	B L O W S P E N O	S A M P L E R E C O V R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS		
20.0	111647	04/26/93	12:15	12	6	SAA		CL	1.5	PID=0 ppm BG=80 cpm		
20.5		04/26/93	00:00	N/A	N/A	BOTTOM OF BORING = 20.5 FEET		N/A	N/A			
NOTES: TEMPORARY WELL SET AS PER INSTRUCTIONS FROM JOHN WHITEHEAD-SEE ATTACHED DRAWING WITH FADL OF 04/27/93. BACKGROUND READINGS: BETA/GAMMA = 50 CPM, HNU = 0 PPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL Drilling Equipment: ACKER SOIL SENTRY SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable		

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1950			COORDINATES: NORTH 482202.10 EAST 1379549.67			DATE: 05-MAY-93			
GROUND ELEVATION: 582.39			GWL: Depth Date/Time			DATE STARTED: 05-MAY-93			
ENGINEER/GEOLOGIST: J REGAN			Depth Date/Time			DATE COMPLETE: 06-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	A D T M E E	B L O W S L E E	S A M P L E R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS
.5	111678 05/05/93 13:05	3	6			STIFF, (2.5Y, 3/3) DARK OLIVE BROWN, SILTY FINE SAND, LOW PLASTICITY, MOIST	ML	1.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
.5 1.0	111679 05/05/93 13:05	10	6			VERY STIFF, (2.5Y, 4/4), OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST	CL	3.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
1.0 1.5	111680 05/05/93 13:05	10	6			SAA	CL	3	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
1.5 2.0	111681 05/05/93 13:05	14	6			SAA	CL	3	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
2.0 3.5	111682 05/05/93 13:10	N/A	16			SHELBY TUBE	N/A	N/A	PID=.4 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
3.5 4.0	111682 05/05/93 13:10	N/A	N/A			SHELBY TUBE, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SOME GRAVEL, MOIST	CL	N/A	PID=.4 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
4.0 4.5	111683 05/05/93 13:30	4	6			STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAY, SOME GRAVELS, MOIST	CL	2	PID=.5 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
4.5 5.0	111683 05/05/93 13:30	8	6			HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAY, SOME GRAVELS, MOIST	CL	4.5	PID=.5 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
5.0 5.5	111684 05/05/93 13:30	10	6			VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAY, SOME GRAVELS, VERY MOIST	CL	2.5	PID=.5 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
5.5 6.0	111685 05/05/93 13:30	16	6			HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAY, SOME GRAVELS, MOIST	CL	4.25	PID=.5 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
6.0 6.5	111686 05/05/93 13:45	10	6			VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, TRACE FINE SAND, LOW PLASTICITY, MOIST	CL	3	PID=.5 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
6.5 7.0	111687 05/05/93 13:45	16	6			SAA	CL	3	PID=.5 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
7.0 7.5	111688 05/05/93 13:45	18	6			SAA	CL	3	PID=.5 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
NOTES: BACKGROUND READINGS: BETA/GAMMA = 50-70 CPM, ALPHA = 0 CPM, MT = .5 PPM									
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENTRY									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 1950					COORDINATES: NORTH 482202.10 EAST 1379549.67			DATE: 05-MAY-93								
GROUND ELEVATION: 582.39					GWL: Depth Date/Time			DATE STARTED: 05-MAY-93								
ENGINEER/GEOLOGIST: J REGAN					Depth Date/Time			DATE COMPLETE: 06-MAY-93								
DRILLING METHOD: HOLLOW STEM AUGER																
D E P T H	S A M P L E	D A T E E E N O N	T I M E E S P L E R Y	B L O W S A C O H E E S	R E C O V E R H E E S	I N C O N T R A C T I O N	S U Y S M C B S O L	T S F	REMARKS							
7.5 8.0	115268 05/05/93 13:45	25	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, TRACE OF FINE SAND, LOW PLASTICITY, MOIST					CL	3	PID=.5 ppm $\alpha=0$ ppm BI=50 cpm					
8.0 9.5	115269 05/05/93 14:00	N/A	18	SHELBY TUBE					N/A	N/A	PID=.5 ppm $\alpha=0$ ppm BI=50 cpm					
9.5 10.0	115269 05/05/93 14:00	N/A	6	SHELBY TUBE, VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, TRACE FINE SAND, LOW PLASTICITY, MOIST					CL	3.5	PID=.5 ppm $\alpha=0$ ppm BI=50 cpm					
10.0 10.5	115270 05/05/93 14:15	4	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY FINE SAND, LOW PLASTICITY, MOIST					ML	2.5	PID=1 ppm $\alpha=0$ ppm BI=50-70 cpm					
10.5 11.0	115270 05/05/93 14:15	10	6	SAA					ML	2.5	PID=1 ppm $\alpha=0$ ppm BI=50-70 cpm					
11.0 11.5	115271 05/05/93 14:15	18	6	SAA					ML	2.5	PID=1 ppm $\alpha=0$ ppm BI=50-70 cpm					
11.5 12.0	115272 05/05/93 14:15	29	6	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, (2.5Y, 5/1) GRAY MOTTLES, SILTY FINE SAND, LOW PLASTICITY, MOIST					ML	2	PID=1 ppm $\alpha=0$ ppm BI=50-70 cpm					
12.0 12.5	115273 05/05/93 14:30	4	6	SAA					ML	2						
12.5 13.0	115274 05/05/93 14:30	10	6	SAA					ML	2	PID=.7 ppm $\alpha=0$ ppm BI=50 cpm					
13.0 13.5	115275 05/05/93 14:30	18	6	SAA					ML	2	PID=.7 ppm $\alpha=0$ ppm BI=50 cpm					
13.5 14.0	115276 05/05/93 14:30	18	6	VERY STIFF, (2.5Y5/1) GRAY, SILTY FINE SAND, LOW PLASTICITY, MOIST, ROCK FRAGMENTS					ML	2	PID=.7 ppm $\alpha=0$ ppm BI=50 cpm					
14.0 14.5	115277 05/05/93 14:40	10	6	DENSE, (2.5Y5/1) GRAY, POORLY GRADED SAND, LOW PLASTICITY, MOIST					SP	N/A	PID=.9 ppm $\alpha=0$ ppm BI=20 cpm					
14.5 15.0	115278 05/05/93 14:40	14	6	SAA					SP	N/A	PID=.9 ppm $\alpha=0$ ppm BI=20 cpm					
NOTES: BACKGROUND READINGS: BETA/GAMMA = 50-70 CPM; ALPHA = 0 CPM, MT = .5 PPM										Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: M WATRAL, B DEILEY Drilling Equipment: ACKER SOIL SENTRY						
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable																

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1950					COORDINATES: NORTH 482202.10 EAST 1379549.67			DATE: 05-MAY-93	
GROUND ELEVATION: 582.39					GWL: Depth	Date/Time		DATE STARTED: 05-MAY-93	
ENGINEER/GEOLOGIST: J REGAN					Depth	Date/Time		DATE COMPLETE: 06-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E N O N	T I M E E R Y	B L O W M S L E	R E C O V E R Y	I N C H E S	U S C B S O L	T S F	REMARKS
15.0	115279 05/05/93 14:40	18	6		DENSE, (2.5Y5/1) GRAY, POORLY GRADED SAND, LOW PLASTICITY, WET, SOME GRAVELS		SP	N/A	PID=.9 ppm $\alpha=0$ ppm $\beta\Gamma=20$ cpm
15.5	115280 05/05/93 14:40	20	4		SAA		SP	N/A	PID=.9 ppm $\alpha=0$ ppm $\beta\Gamma=20$ cpm
16.0	115281 05/05/93 14:50	8	6		STIFF, (2.5Y5/1) GRAY, SILTY CLAY, LOW PLASTICITY, MOIST		CL	1.5	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
16.5	115282 05/05/93 14:50	10	6		VERY STIFF, (2.5Y5/1) GRAY, SILTY CLAY, LOW PLASTICITY, MOIST		CL	2	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
17.0	115283 05/05/93 14:50	12	6		STIFF, (2.5Y5/1) GRAY, SILTY CLAY, LOW PLASTICITY, MOIST		CL	1.75	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
17.5	115284 05/05/93 14:50	14	6		VERY STIFF, (2.5Y5/1) GRAY, SILTY CLAY, LOW PLASTICITY, MOIST		CL	2	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
18.0	115285 05/05/93 15:00	6	6		VERY STIFF, (2.5Y, 5/1) GRAY, SILTY CLAY, SOME GRAVELS, LOW PLASTICITY, MOIST		CL	2.5	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
18.5	115286 05/05/93 15:00	8	6		SAA		CL	2	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
19.0	115287 05/05/93 15:00	12	6		SAA		CL	2	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
19.5	115288 05/05/93 15:00	14	6		SAA		CL	2.5	PID=1 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
20.0	05/05/93 00:00	N/A	N/A		BOTTOM OF BORING AT 20 FEET		N/A	N/A	

NOTES:

BACKGROUND READINGS: BETA/GAMMA = 50-70 CPM, ALPHA = 0 CPM, MT = .5 PPM

Boring Contractor: PENNSYLVANIA DRILLING CO.
 Driller: M WATRAL, B DEILEY
 Drilling Equipment: ACKER SOIL SENTRY

SAA = Same as Above
 PID = Photoionization Detector
 N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 1952					COORDINATES: NORTH 482057.73 EAST 1379766.45			DATE: 30-APR-93								
GROUND ELEVATION: 588.01					GWL: Depth	Date/Time	DATE STARTED: 30-APR-93									
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time	DATE COMPLETE: 30-APR-93									
DRILLING METHOD: HOLLOW STEM AUGER																
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E R E C O V E R Y	I N C H E E S		S Y U S M C B S O L	T S F	REMARKS							
.5	111652 04/30/93 14:30	4	6	STIFF, (10YR3/3) SILTY FINE SAND, LOW PLASTICITY, MOIST					ML	2	PID=0 ppm α =0 ppm BG=60 cpm					
.5 1.0	111653 04/30/93 14:30	8	6	VERY STIFF, (2.5Y4/3) OLIVE BROWN, (2.5Y5/4) MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST					CL	2	PID=0 ppm α =0 ppm BG=60 cpm					
1.0 1.5	111654 04/30/93 14:30	11	6	SAA					CL	2	PID=0 ppm α =0 ppm BG=60 cpm					
1.5 2.0	111655 04/30/93 14:30	11	6	SAA					CL	2	PID=0 ppm α =0 ppm BG=60 cpm					
2.0 2.5	111656 04/30/93 14:35	5	6	SAA					CL	2	PID=0 ppm α =0 ppm BG=80 cpm					
2.5 3.0	111657 04/30/93 14:35	6	6	SAA					CL	2	PID=0 ppm α =0 ppm BG=80 cpm					
3.0 3.5	04/30/93 00:00	6	0	NO RECOVERY					N/A	N/A						
3.5 4.0	04/30/93 00:00	9	0	NO RECOVERY					N/A	N/A						
4.0 6.0	111658 04/30/93 14:50	N/A	N/A	SHELBY TUBE					N/A	N/A						
6.0 6.5	111659 04/30/93 15:00	7	6	VERY STIFF, (2.5Y5/4) SILTY CLAY, SLIGHTLY PLASTIC, MOIST					CL	2	PID=0 ppm α =0 ppm BG=80 cpm					
6.5 7.0	111660 04/30/93 15:00	10	6	STIFF, (2.5Y5/4), SILTY CLAY, LOW PLASTICITY, MOIST					CL	1.5	PID=0 ppm α =0 ppm BG=80 cpm					
7.0 7.5	111676 05/05/93 15:00	11	6	VERY STIFF, (2.5Y2/1) BLACK, SILTY CLAY, LOW PLASTICITY, MOIST					CL	2	PID=0 ppm α =0 ppm BG=80 cpm					
7.5 8.0	111660 04/30/93 15:00	19	6	VERY STIFF, (2.5Y2/1) BLACK, SILTY CLAY, LOW PLASTICITY, MOIST					CL	2	PID=0 ppm α =0 ppm BG=80 cpm					
NOTES: BACKGROUND READINGS: BETA/GAMMA = 60-80 CPM, ALPHA = 0 CPM, MT = 0 PPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL, BOB DEILEY						
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable																

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1952					COORDINATES: NORTH 482057.73 EAST 1379766.45						
GROUND ELEVATION: 588.01					GWL: Depth	Date/Time		DATE STARTED: 30-APR-93			
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 30-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D A T E E E	T M E S O N	B L O W S P L E O N	R E C O V E R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS		
8.0 8.5	111661 04/30/93 15:10	4	6	VERY STIFF, (2.5Y5/4), SILTY CLAY, LOW PLASTICITY, MOIST					CL	2	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
8.5 9.0	111662 04/30/93 15:10	6	6	VERY STIFF, (2.5Y2/1) BLACK, SILTY CLAY, LOW PLASTICITY, MOIST					CL	2	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
9.0 9.5	111663 04/30/93 15:10	8	6	VERY STIFF, (2.5Y5/4) SILTY CLAY, LOW PLASTICITY, MOIST					CL	2	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
9.5 10.0	111664 04/30/93 15:10	14	6	SAA					CL	2	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
10.0 10.5	111665 04/30/93 15:15	5	6	VERY STIFF, (2.5Y2/1) BLACK, SILTY CLAY, LOW PLASTICITY, MOIST					CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
10.5 11.0	111666 04/30/93 15:15	9	6	VERY STIFF, (2.5Y5/4) SILTY CLAY, MEDIUM PLASTICITY, MOIST					CL	3	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
11.0 11.5	111667 04/30/93 15:15	11	6	SAA					CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
11.5 12.0	111668 04/30/93 15:15	16	6	VERY STIFF, (2.5Y5/4), SILTY CLAY, TRACE SAND, LOW PLASTICITY, WET					CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
12.0 14.0	111669 04/30/93 15:30	N/A	N/A	SHELBY TUBE					N/A	N/A	
14.0 14.5	111670 04/30/93 15:45	5	6	VERY STIFF, (2.5Y5/4), SILTY CLAY, TRACE SAND, LOW PLASTICITY, MOIST					CL	3	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
14.5 15.0	111670 04/30/93 15:45	12	6	SAA					CL	3	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
15.0 15.5	111671 04/30/93 15:45	17	6	VERY STIFF, (2.5Y5/4), SILTY CLAY, TRACE SAND, LOW PLASTICITY, MOIST					CL	3	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
15.5 16.0	111677 04/30/93 15:45	20	6	SAA					CL	3	
NOTES: BACKGROUND READINGS: BETA/GAMMA = 60-80 CPM, ALPHA = 0 CPM, MT = 0 PPM					Boring Contractor: PENNSYLVANIA DRILLING Driller: MARTY WATRAL, BOB DEILEY						
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1952					COORDINATES: NORTH 482057.73 EAST 1379766.45					
GROUND ELEVATION: 588.01					GWL: Depth	Date/Time		DATE STARTED: 30-APR-93		
ENGINEER/GEOLOGIST: J REAGAN					Depth	Date/Time		DATE COMPLETE: 30-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS	
16.0 16.5	111672 04/30/93 16:00	5		6	VERY STIFF, (2.5Y5/4), (2.5Y6/1) MOTTLES, CLAY, MEDIUM PLASTICITY, MOIST, FEW GRAVELS			CL	3	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
16.5 17.0	111673 04/30/93 16:00	5		6	SAA			CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
17.0 17.5	111674 04/30/93 16:00	12		6	VERY STIFF, (2.5Y5/4), (2.5Y6/1) AND (10YR5/4) MOTTLES, CLAY, MEDIUM PLASTICITY, MOIST			CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
17.5 18.0	04/30/93 16:00	21		0	NO RECOVERY			N/A	N/A	
18.0 18.5	111675 05/01/93 08:40	16		6	VERY STIFF, (2.5Y5/1) GRAY, (2.5Y5/4) MOTTLES, SILTY CLAY, SLIGHTLY PLASTIC, MOIST			CL	2.5	PID=1.4 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
18.5 19.0	04/30/93 00:00	36	N/A		NO RECOVERY			N/A	N/A	
19.0 19.5	04/30/93 00:00	50	N/A		NO RECOVERY			N/A	N/A	
19.5 20.0	04/30/93 00:00	50	N/A		NO RECOVERY			N/A	N/A	
20.0	04/30/93 00:00	N/A	N/A		BOTTOM OF BORING AT 20 FEET			N/A	N/A	

NOTES:

BACKGROUND READINGS: BETA/GAMMA = 60-80 CPM, ALPHA = 0
CPM, MT = 0 PPM

Boring Contractor: PENNSYLVANIA DRILLING
Driller: MARTY WATRAL, BOB DEILEY

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

5.23.03

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1982					COORDINATES: NORTH 482223.30 EAST 1379595.20			DATE: 06-MAY-93		
GROUND ELEVATION: 584.5					GWL: Depth	Date/Time		DATE STARTED: 06-MAY-93		
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 06-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER										
DEPTH	SAMPLE	SAE TIME	BLOW COUNTS	RECOVERY				SYMBOL	TSF	REMARKS
2.5	111484 111485 111486 05/06/93 08:50	N/A	30	VERY STIFF, (2.5Y 5/3) LIGHT OLIVE BROWN, AND (10YR 5/6) YELLOWISH BROWN, SILTY CLAY, SLIGHT PLASTICITY, SOME GRAVEL, DRY				CL	3.75	PID=0.7 ppm BT=50-70 cpm
2.5	05/06/93 08:50	N/A	30	SAA				CL	2.5	PID=0.7 ppm BT=50-70 cpm
5.0	05/06/93 09:10	N/A	30	HARD (5Y 6/1) GRAY AND (2.5Y 5/6) LIGHT OLIVE BROWN SILTY CLAY, NO PLASTICITY, SOME SMALL GRAVEL, DRY				CL	4.5	PID=0.7 ppm BT=50-70 cpm
7.5	111487 05/06/93 09:10	N/A	30	VERY STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY CLAY, NO PLASTICITY, DRY, IRON STAINING ON CLEAVAGE SURFACES				CL	3.75	PID=0.7 ppm BT=50-70 cpm
10.0	111488 05/06/93 09:20	N/A	N/A	PUSH SHELBY TUBE FROM 10.0' TO 12.0' @ 09:20 SAMPLE #111488				N/A	N/A	
12.0	05/06/93 00:00	N/A	N/A	BOTTOM OF BORING AT 12 FEET				N/A	N/A	
NOTES: SAMPLED TO 10.0' WITH CME SAMPLER. THEN PUSHED SHELBY TUBE FROM 10.0' TO 12.0'. BACKGROUND READINGS: MT = .7 PPM, BETA/GAMMA = 50-70 CPM										Boring Contractor: PENNSYLVANIA DRILLING CO Driller: DON SMITH, SAM SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 1983					COORDINATES: NORTH 482173.32 EAST 1379593.72			DATE: 03-MAY-93				
GROUND ELEVATION: 582.7					GWL: Depth		Date/Time		DATE STARTED: 03-MAY-93			
ENGINEER/GEOLOGIST: A COMO					Depth		Date/Time		DATE COMPLETE: 05-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER												
D E P T H	S A M P L E	D E E N	T R E E R Y	B L O W S P L E N	R E C O V H E S	I N C H E R Y	S U S M C B S O L	T S F	REMARKS			
1.5	111475 05/03/93 14:00	N/A	N/A	18	STIFF, (2.5Y 4/4) OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, SOME SMALL ANGULAR TO ROUNDED GRAVEL, MOIST.			CL	1.5	PID=0.6 ppm BT=60-70 cpm		
1.5 2.5	111476 05/03/93 14:00	N/A	N/A	12	VERY STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SLIGHT PLASTICITY, SOME GRAVEL, SOME BLACK CLAY SPOTS, MOIST			CL	3.25	PID=0.6 ppm BT=60-70 cpm		
2.5 5.0	111477 111478 05/03/93 14:00	N/A	N/A	30	VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, AND (5Y 5/1) GRAY SILTY CLAY, SOME GRAVEL, MEDIUM PLASTICITY, DRY			CL	3.0	PID=0.6 ppm BT=70-80 cpm		
5.0 6.0	05/05/93 09:15	N/A	N/A	12	(2.5Y 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, SOME SMALL BLACK SPECS, DRY.			ML	N/A	PID=0 ppm BT=70-80 cpm		
6.0 7.5	05/05/93 09:15	N/A	N/A	18	VERY STIFF, (5Y 5/1) GRAY SILTY CLAY, SLIGHT PLASTICITY, SOME VF SAND, SOME GRAVEL, DRY			CL	2.25	PID=0 ppm BT=70-80 cpm		
7.5 8.5	05/05/93 09:15	N/A	N/A	12	STIFF, (5Y 5/1) GRAY SILTY CLAY, SLIGHT PLASTICITY, SOME GRAVEL, DRY			CL	1.5	PID=0 ppm BT=70-80 cpm		
8.5 9.0	05/05/93 09:15	N/A	N/A	6	SAA WITH SOME (5Y 5/4) OLIVE CLAY, MOIST			CL	1.5	PID=0 ppm BT=70-80 cpm		
9.0 10.0	05/05/93 09:15	N/A	N/A	12	STIFF (5Y 4/1) DARK GRAY SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, SOME GREENISH SILTY CLAY, DRY			CL	1.5	PID=0 ppm BT=70-80 cpm		
10.0 11.5	05/05/93 09:50	N/A	N/A	30	SAA			CL	1.5	PID=0 ppm BT=70-80 cpm		
11.5 12.5	05/05/93 09:50	N/A	N/A	30	(2.5Y 5/4) OLIVE CLAYEY SILT WITH (10YR 4/6) DARK YELLOWISH BROWN, DISCOLORATION ALONG CLEAVAGE PLANES, SOME BLACK SPECS, SOME GRAVEL, NO PLASTICITY, DRY			ML	N/A	PID=0 ppm BT=70-80 cpm		
12.5 14.0	05/05/93 09:50	N/A	N/A	30	SAA			ML	N/A	PID=0 ppm BT=70-80 cpm		
14.0 15.0	05/05/93 09:50	N/A	N/A	30	VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, CLAYEY SILT AND (5Y 5/1) GRAY CLAY, SOME SMALL GRAVEL, DRY, IRON STAINING ALONG CLEAVAGE PLANES			CL	3.25	PID=0 ppm BT=70-80 cpm		
NOTES: SOIL BORING USING CME SAMPLER. 05/03/93 BACKGROUND READINGS: MT = .6 PPM, BETA/GAMMA = 60-70 CPM; 05/05/93 BACKGROUND READINGS: MT = 0 PPM, BETA/GAMMA = 70-80 CPM												
Boring Contractor: PENNSYLVANIA DRILLING CO Driller: DON SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable												

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1983					COORDINATES: NORTH 482173.32 EAST 1379593.72			DATE: 03-MAY-93		
GROUND ELEVATION: 582.7					GWL: Depth Date/Time			DATE STARTED: 03-MAY-93		
ENGINEER/GEOLOGIST: A COMO					Depth Date/Time			DATE COMPLETE: 05-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER										
D E P T H	S A M P L E	D T M E E	B L W S P L E	R E C O V E R Y	I N C H E S		S Y U S C B S O L	T S F	REMARKS	
15.0	05/05/93 10:15	N/A	30	VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, AND (5Y 5/1) GRAY SILTY CLAY, SLIGHT PLASTICITY, SOME SMALL GRAVEL, DRY				CL	3.5	PID=0 ppm B γ =70-80 cpm
17.5	111480 111481 111482 05/05/93 10:15	N/A	18	SAA				CL	3.5	PID=0 ppm B γ =70-80 cpm
19.0	111480 111481 111482 05/05/93 10:15	N/A	12	(2.5Y 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, NO PLASTICITY, DRY				ML	N/A	PID=0 ppm B γ =70-80 cpm
20.0	05/05/93 00:00	N/A	N/A	BOTTOM OF BORING AT 20 FEET				N/A	N/A	
NOTES: SOIL BORING USING CME SAMPLER. 05/03/93 BACKGROUND READINGS: MT = .6 PPM, BETA/GAMMA = 60-70 CPM; 05/05/93 BACKGROUND READINGS: MT = 0 PPM, BETA/GAMMA = 70-80 CPM										Boring Contractor: PENNSYLVANIA DRILLING CO Driller: DON SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1984				COORDINATES: NORTH 482096.15 EAST 1379666.47						
GROUND ELEVATION: 588				GWL: Depth Date/Time						
ENGINEER/GEOLOGIST: A COMO				Depth Date/Time						
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER										
D E P T H	S A M P L E E	D A T E M E N T	B L O W S P L E E N O N Y	R E C O V R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS		
2.5	111463 111464 111465 05/01/93 11:00	N/A	30	VERY STIFF, (2.5Y 4/4) OLIVE BROWN AND (2.5Y 5/2) SILTY CLAY, SLIGHT PLASTICITY, SOME SMALL GRAVEL, DRY				CL	2.25	PID=1.5 ppm BT=100-110 cpm
2.5 5.0	111466 05/01/93 11:00	N/A	30	(2.5'-3.0') OBSTRUCTION DRILLED THROUGH WITH AUGERS, GRAY (5Y, 5/1) SILTY SAND, WELL GRADED WITH (2.5Y, 4/4) OLIVE BROWN SILTY CLAY, SOME SMALL GRAVEL, DRY				SM	N/A	PID=1.6 ppm BT=100-110 cpm
5.0 7.5	111469 05/01/93 14:00	N/A	30	(5Y 5/1) GRAY SILTY SAND, WELL GRADED, SOME SMALL GRAVEL, SOME (5Y 4/4) OLIVE SILTY CLAY, LOW PLASTICITY, DRY				SM	N/A	PID=1.1 ppm BT=100-110 cpm
7.5 9.0	111467 05/01/93 14:00	N/A	30	SAA				SM	N/A	PID=1.1 ppm BT=100-110 cpm
9.0 10.0	111471 111472 05/01/93 14:00	N/A	30	VERY STIFF, (5Y 3/1) VERY DARK GRAY, SILTY CLAY, LOW PLASTICITY, SOME (5Y 4/1) DARK GRAY SILTY CLAY, DRY				CL	2.25	PID=1.1 ppm BT=100-110 cpm
10.0 12.5	111470 05/01/93 14:30	N/A	30	VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN AND SILTY, (2.5Y 5/0) CLAY, SLIGHT PLASTICITY, DRY				CL	2.5	PID=1.1 ppm BT=100-110 cpm
12.5 15.0	111468 05/01/93 14:30	N/A	30	VERY STIFF, (2.5Y 5/6) LIGHT OLIVE BROWN, SILTY CLAY, SOME (2.5Y 6/0) SILTY CLAY, SLIGHT PLASTICITY, DRY				CL	2.75	PID=1.1 ppm BT=100-110 cpm
15.0	05/01/93 00:00	N/A	N/A	BOTTOM OF BORING AT 15 FEET				N/A	N/A	
NOTES: SOIL BORING USING HOLLOW STEM AUGER W/CME SAMPLER. BACKGROUND READINGS: MT = 1.1 PPM, BETA/GAMMA = 100-110 CPM								Boring Contractor: PENNSYLVANIA DRILLING CO Driller: CHRIS COULTER, BOB JOHNSON SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable		

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1985				COORDINATES: NORTH 482092.47 EAST 1379724.66				DATE: 26-APR-93
GROUND ELEVATION: 588.1				GWL: Depth	Date/Time		DATE STARTED: 26-APR-93	
ENGINEER/GEOLOGIST: A COMO				Depth	Date/Time		DATE COMPLETE: 27-APR-93	
DRILLING METHOD: BUCKET AUGER AND CME SAMPLER								
D E P T H	S A D T M P T L E E	B L O W S L O N	R E A C O P R E Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
1.0	111440 04/26/93 13:40	N/A	12	(2.5Y 4/4) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, MOIST	CL	N/A	PID=.6 ppm BT=80-100 cpm	
1.0 2.0	111440 04/26/93 13:40	N/A	12	SAA, DRY	CL	N/A	PID=.6 ppm BT=80-100 cpm	
2.0 3.0	111440 04/26/93 14:00	N/A	12	(2.5Y, 5/3) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, DRY	CL	N/A	PID=1.1 ppm BT=80-100 cpm	
3.0 4.0	111441 04/26/93 14:00	N/A	12	SAA, DRY	CL	N/A	PID=1.1 ppm BT=80-100 cpm	
4.0 5.0	111442 04/26/93 15:30	N/A	12	(2.5Y, 4/4) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, WET	CL	N/A	PID=1.1 ppm BT=40-50 cpm	
5.0 6.0	111442 04/26/93 15:30	N/A	12	SAA, SOME SAND, WELL GRADED CAN SEE WATER FLOWING INTO BOREHOLE FROM SIDEWALL TO 4.8'	CL	N/A	PID=1.1 ppm BT=40-50 cpm	
6.0 7.0	111443 04/26/93 16:35	N/A	12	(2.5Y, 4/2) DARK GRAYISH BROWN, SILTY CLAY, MEDIUM PLASTICITY, SOME GRAVEL, SOME SAND, WELL GRADED, MOIST, NAIL	CL	N/A	PID=1.1 ppm BT=40-50 cpm	
7.0 8.0	111443 04/26/93 16:35	N/A	12	SAA	CL	N/A	PID=1.1 ppm BT=40-50 cpm	
8.0 9.0	111444 04/27/93 14:30	N/A	12	(2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, LOW PLASTICITY, SOME GRAVEL, SOME SAND, WELL GRADED, MOIST	ML	N/A	PID=.8 ppm BT=40-50 cpm	
9.0 10.0	111444 04/27/93 14:30	N/A	12	SAA	ML	N/A	PID=.8 ppm BT=40-50 cpm	
10.0 11.0	111445 04/27/93 14:30	N/A	12	STIFF (2.5Y, 4/2) DARK GRAYISH BROWN, SILTY CLAY, MEDIUM PLASTICITY, SOME GRAVEL, MOIST	CL	1	PID=.8 ppm BT=40-50 cpm	
11.0 12.0	111445 04/27/93 14:30	N/A	12	VERY STIFF (2.5Y, 2/0) BLACK AND (2.5Y, 4/0) DARK GRAY, SILTY CLAY, LOW PLASTICITY, DRY	CL	2.5	PID=.8 ppm BT=40-50 cpm	
12.0 12.5	111446 04/27/93 14:30	N/A	6	SAA, VERY STIFF, DRY	CL	2.75	PID=.8 ppm BT=40-50 cpm	
<p>NOTES: USED BUCKET AUGER FRIM 0.0' to 8.0'. THEN USED CME SAMPLER FROM 8.0 TO 17.0'. GROUTED NATIVE MATERIAL THEN BACKFILLED BORING WITH SOIL CUTTINGS. BACKGROUND READINGS: MT = .6 PPM, BETA/GAMMA = 40-60 CPM</p> <p>Boring Contractor: PENNSYLVAINA DRILLING Driller: DON SMITH Drilling Equipment: MOBILE B-80</p> <p>SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>								

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1985					COORDINATES: NORTH 482092.47 EAST 1379724.66			DATE: 26-APR-93		
GROUND ELEVATION: 588.1					GWL: Depth	Date/Time		DATE STARTED: 26-APR-93		
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 27-APR-93		
DRILLING METHOD: BUCKET AUGER AND CME SAMPLER										
D E P T H	S A M P L E	D A T E E N O N	T I M E S P L E R Y	B L O W S P L E R Y	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
12.5 13.0	111446 04/27/93 14:30	N/A	6	VERY STIFF (5Y, 5/1) GRAY CLAY, SOME (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, DRY				CL	2.75	PID=.8 ppm BI=40-50 cpm
13.0 14.0	111447 04/27/93 16:30	N/A	12	VERY STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, SOME (2.5Y, 4/0) DARK GRAY, SILTY CLAY, SOME GRAVEL, LOW PLASTICITY, DRY				ML	3	PID=.8 ppm BI=40-50 cpm
14.0 15.0	111447 04/27/93 16:30	N/A	12	SAA, DRY				ML	3	PID=.8 ppm BI=40-50 cpm
15.0 16.0	111448 04/27/93 16:30	N/A	12	VERY STIFF (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT SOME (7.5Y, 5/6) STRONG BROWN, SILTY CLAY, SLIGHT PLASTICITY, SOME SMALL GRAVEL, DRY, IRON STAINING ON CLEAVAGE PLANES				ML	3.25	PID=.8 ppm BI=40-50 cpm
16.0 17.0	111448 04/27/93 16:30	N/A	12	SAA, DRY				ML	3.25	PID=.8 ppm BI=40-50 cpm
17.0	04/27/93 00:00	N/A	N/A	BOTTOM OF BORING AT 17 FEET				N/A	N/A	
NOTES: USED BUCKET AUGER FROM 0.0' TO 8.0'. THEN USED CME SAMPLER FROM 8.0 TO 17.0'. GROUTED NATIVE MATERIAL THEN BACKFILLED BORING WITH SOIL CUTTINGS. BACKGROUND READINGS: MT = .6 PPM, BETA/GAMMA = 40-60 CPM										Boring Contractor: PENNSYLVANIA DRILLING Driller: DON SMITH Drilling Equipment: MOBILE B-80 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1986				COORDINATES: NORTH 482114.80 EAST 1379724.53			DATE: 28-APR-93	
GROUND ELEVATION: 588.7				GWL: Depth		Date/Time		DATE STARTED: 28-APR-93
ENGINEER/GEOLOGIST: A COMO			Depth		Date/Time		DATE COMPLETE: 30-APR-93	
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER								
D E P T H	S A D T M A I P T M L E E	B L O W M S L E N	R E A C O P L E R Y	I N C H E R E S	S U Y S M C B S O L	T S F	REMARKS	
2.5	111451 04/28/93 14:30	N/A	18	VERY STIFF, (2.5Y, 4/3) OLIVE BROWN, SILTY CLAY, LOW TO MEDIUM PLASTICITY, DRY, SOME (5Y, 4/2) OLIVE GRAY, SILTY CLAY	CL	2.75	PID=.9 ppm BT=100-120 cpm	
2.5 4.8	111450 111452 111454 04/28/93 14:30	N/A	18	HARD (2.5Y, 4/3) OLIVE, BROWN, SILTY, CLAY, LOW PLASTICITY, GRAVEL, DRY	CL	4		
4.8 5.0	111450 04/28/93 14:30	N/A		HARD (2.5Y, 4/0) DARK, GRAY TO (2.5Y, 2/0) BLACK, SILTY, CLAY, NO PLASTICITY, DRY	CL	4	PID=.9 ppm BT=10,000 cpm	
5.0 7.5	111453 111455 04/28/93 15:15	N/A	30	VERY STIFF (5Y, 4/2) OLIVE, GRAY, SILTY, CLAY, LOW PLASTICITY, SOME GRAVEL, SMALL AREAS OF BLACK MATERIAL, SOME (2.5Y, 5/4) LIGHT, OLIVE, BROWN, SILTY, CLAY WITH SOME (2.5Y, 5/1) GRAY, SILTY, CLAY, DRY	CL	3	PID=1 ppm BT=150-170 cpm	
7.5 9.0	111456 04/29/93 15:15	N/A	24	VERY STIFF (5Y, 4/2) OLIVE, GRAY, SILTY, CLAY, SOME SUBANGULAR TO ROUNDED GRAVEL, LOW PLASTICITY, DRY	CL	2.75	PID=1 ppm BT=150-170 cpm	
9.0 10.0	111456 04/29/93 15:15	N/A	N/A	(5Y, 4/2) OLIVE, GRAY, SAND LENSE VERY STIFF (7.5YR, 2/0) BLACK, SILTY, CLAY, LOW PLASTICITY, DRY	N/A	N/A	PID=1 ppm BT=150-170 cpm	
10.0 11.0	111457 04/30/93 09:30	N/A	30	VERY STIFF (5Y, 5/1) GRAY, CLAY WITH (2.5Y, 5/6) LIGHT, OLIVE, BROWN, SILTY, CLAY, LOW PLASTICITY, DRY	CL	3	PID=.6 ppm BT=80-90 cpm	
11.0 12.5	111457 04/30/93 09:30	N/A	N/A	VERY STIFF (2.5Y, 6/0) GRAY AND (2.5Y, 5/6) LIGHT, OLIVE, BROWN, SILTY, CLAY, WITH SOME (2.5Y, 2/0) BLACK, CLAY, LOW PLASTICITY, DRY	N/A	N/A	PID=.6 ppm BT=80-90 cpm	
12.5 15.0	111456 111458 111459 115417 04/30/93 09:30	N/A	30	VERY STIFF (2.5Y, 5/6) LIGHT, OLIVE, BROWN, SILTY CLAY, LOW PLASTICITY, DRY; 13 FEET TO 13.5 FEET, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SAND, WELL GRADED, SOME GRAVEL, MOIST	CL	2.75	PID=.6 ppm BT=80-90 cpm	
NOTES: SOIL BORING USING HOLLOW STEM AUGER W/CME SAMPLER. PUSHED SHELBY TUBE FROM 15.0' TO 17.0'.				Boring Contractor: PENNSYLVANIA DRILLING CO Driller: DON SMITH				
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable								

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1987					COORDINATES: NORTH 482147.62 EAST 1379617.96				
GROUND ELEVATION: 587.5					GWL: Depth		Date/Time		DATE STARTED: 13-MAY-93
ENGINEER/GEOLOGIST: A COMO					Depth		Date/Time		DATE COMPLETE: 13-MAY-93
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER									
DEPTH	SAMPLE	DATE	BLOW	RECOVERY	SYNTHETIC	TEST	TSF	REMARKS	
DEPTHEE	TIME	BLLOW	SAMPLE	RECOVERY	SYNTHETIC	TEST	TSF	REMARKS	
2.5	05/13/93 10:00	N/A	30	HARD, (2.5Y,4/3) OLIVE BROWN, SILTY CLAY, NO PLASTICITY, SOME GRAVEL, DRY	CL	3	PID=1.4 ppm B Γ =40-80 cpm		
2.5	05/13/93 10:00	N/A	6	SAA, DRY	CL	3	PID=1.4 ppm B Γ =40-80 cpm		
3.0	05/13/93 10:00	N/A	24	HARD, (2.5Y,5/6) LIGHT OLIVE BROWN, SILTY CLAY, NO PLASTICITY, DRY, FEW PIECES OF GRAVEL, SOME (5Y,5/1) GRAY CLAY, DRY	CL	4	PID=1.4 ppm B Γ =40-80 cpm		
5.0	115357 115358 05/13/93 10:15	N/A	30	HARD, (2.5Y,5/6) LIGHT OLIVE BROWN, SILTY CLAY, AND (5Y,5/1) GRAY, SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, DRY, PIECES OF GLASS AND BLACK TAR LIKE MATERIAL	CL	3	PID=1.4 ppm B Γ =40-80 cpm		
7.5	05/13/93 10:15	N/A	30	FIRM, (5Y,5/2) OLIVE GRAY, SILTY CLAY, MEDIUM PLASTICITY, SOME GRAVEL, SOME (2.5Y,5/6) LIGHT OLIVE BROWN, SILTY CLAY, DRY	CL	1	PID=1.4 ppm B Γ =40-80 cpm		
10.0	05/13/93 10:40	N/A	24	HARD, (5Y,5/1) GRAY, SILTY CLAY, LOW PLASTICITY, SOME (2.5Y,5/6), CLAYEY SILT, DRY	CL	2.25	PID=1.4 ppm B Γ =40-80 cpm		
12.0	05/13/93 10:40	N/A	6	VERY HARD, (2.5Y,5/4) LIGHT OLIVE BROWN, CLAYEY SILTY, NO PLASTICITY, SOME SMALL (2.5Y,5/0) GRAY PEBBLES, DRY	ML	4.5	PID=1.4 ppm B Γ =40-80 cpm		
12.5	115359 05/13/93 10:40	N/A	30	SAA, DRY, IRON STAINING EVIDENT ON CLEAVAGE PLANES	ML	4.5	PID=1.4 ppm B Γ =40-80 cpm		
15.0	115361 05/13/93 11:00	N/A	N/A	SHELBY TUBE	N/A	N/A			
17.0	05/13/93 00:00	N/A	N/A	BOTTOM OF BORING AT 17 FEET	N/A	N/A			
NOTES: SOIL BORING USING CME SAMPLER. PUSHED SHELBY TUBE FROM 15' TO 17'. BACKGROUND READINGS: MT = 1.4 PPM, BETA/GAMMA = 40-80 CPM					Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: DON SMITH, SAM SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable				

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1988				COORDINATES: NORTH 482118.15 EAST 1379767.17			DATE: 12-MAY-93		
GROUND ELEVATION: 588.3				GWL: Depth	Date/Time		DATE STARTED: 12-MAY-93		
ENGINEER/GEOLOGIST: A COMO				Depth	Date/Time		DATE COMPLETE: 12-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER									
DEPTH	S A D T M A T E P T M E L E E	B L O W S M W S A M P S I N C H E O N E R E E R Y	R E C O V E R E S	I		S U Y S M C B S O L	T S F	REMARKS	
2.5	05/12/93 10:00	N/A	30	VERY HARD, (2.5Y,4/2) DARK GRAYISH BROWN, SILTY CLAY, NO PLASTICITY, SOME GRAVEL, SOME (2.5Y,4/0) DARK GRAY, SILTY CLAY, DRY	CL	4.5	PID=1.6 ppm BT=80-100 cpm		
2.5 5.0	05/12/93 10:00	N/A	24	FIRM, (5Y,4/1) DARK GRAY, TO (5Y,3/1) VERY DARK GRAY, SILTY CLAY, MEDIUM PLASTICITY, SOME GRAVEL, DRY	CL	1	PID=4.2 ppm BT=180-200 cpm		
5.0 7.5	05/12/93 10:15	N/A	30	FIRM, (5Y,4/1) DARK GRAY, SILTY CLAY, LOW PLASTICITY, SOME SMALL GRAVEL, SOME (5Y,3/1) VERY DARK GRAY, SILTY CLAY, FEW PIECES OF ORGANIC MATERIAL, MOIST	CL	1.5	PID=1.6 ppm BT=80-100 cpm		
7.5 10.0	05/12/93 10:15	N/A	24	HARD, (5Y,3/1) VERY DARK GRAY, CLAYEY SILT, SOME (5Y,5/2) OLIVE GRAY CLAY, SLIGHT PLASTICITY, FEW PIECES OF GRAVEL, DRY	CL	2.25	PID=1.6 ppm BT=80-100 cpm		
10.0 12.5	05/12/93 10:30	N/A	30	HARD, (5Y,5/1) GRAY, CLAY, SOME (10YR,5/6) YELLOW BROWN, SILTY CLAY, MEDIUM PLASTICITY, DRY	CL	3	PID=1.6 ppm BT=80-100 cpm		
12.5 15.0	05/12/93 10:30	N/A	30	HARD, (10YR,5/6) YELLOWISH BROWN, AND (2.5Y,5/4) LIGHT OLIVE BROWN, SILTY CLAY, SOME (5Y,5/1) GRAY, CLAY, LOW PLASTICITY, DRY	CL	3	PID=1.6 ppm BT=80-100 cpm		
15.0 17.5	05/12/93 13:00	N/A	30	HARD, (2.5Y,5/4) LIGHT OLIVE BROWN, CLAYEY SILTY, SOME (5Y,5/1) GRAY, CLAY, NO PLASTICITY, SOME PIECES OF GRAVEL, DRY	ML	3	PID=1.6 ppm BT=80-100 cpm		
17.5 19.0	05/12/93 13:00	N/A	18	SAA, DRY	ML	4.5	PID=1.6 ppm BT=80-100 cpm		
19.0 20.0	05/12/93 13:00	N/A	12	VERY HARD, (5Y,5/1) GRAY, SILTY CLAY, NO PLASTICITY, DRY, IRON STAINING EVIDENT ON CLEAVAGE PLANES	CL	4.5	PID=1.6 ppm BT=80-100 cpm		
20.0 22.0	05/12/93 13:15	N/A	N/A	@ 13:15 PUSHED SHELBY TUBE FROM 20' TO 22' *VERY HARD TO PUSH SHELBY TUBE	N/A	N/A			
22.0	05/12/93 00:00	N/A	N/A	BOTTOM OF BORING AT 22 FEET	N/A	N/A			
<p>NOTES: SOIL BORING USING CME SAMPLER TO 20.0'. PUSHED SHELBY TUBE FROM 20.0' TO 22.0'. BACKGROUND READINGS: MT - 1.6 PPM, BETA/GAMMA = 80-100 CPM</p>					<p>Boring Contractor: PENNSYLVANIA DRILLING CO Driller: DON SMITH, SAM SMITH</p> <p>SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>				

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1989					COORDINATES: NORTH 482197.59 EAST 1379619.43			DATE: 14-MAY-93		
GROUND ELEVATION: 586.7					GWL: Depth		Date/Time		DATE STARTED: 14-MAY-93	
ENGINEER/GEOLOGIST: A COMO					Depth		Date/Time		DATE COMPLETE: 14-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER										
D E E P T H	S A M P L E	D A T E	B L O W S A M P L E O N	T I M E	R E C O V R Y	I N C H E E S	S U Y S M C B S O L	T S F	REMARKS	
2.5	05/14/93 09:45	N/A		30	FIRM, (2.5Y, 4/4) OLIVE BROWN, SILTY CLAY, SLIGHT PLASTICITY, SOME GRAVEL, DRY, SOME PLASTIC			CL	1.5	PID=.4 ppm BT=40-80 cpm
2.5 4.0	115362 05/14/93 09:45	N/A		18	FIRM, (5Y, 4/1) DARK GRAY, SILTY CLAY, MEDIUM PLASTICITY, SOME GRAVEL, DRY, GLASS, PLASTIC, PAPER			CL	1.25	PID=1.4 ppm BT=80-100 cpm
4.0 5.0	115362 05/14/93 09:45	N/A		12	FIRM, (2.5Y, 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SOME (5Y, 4/1) DARK GRAY, SILTY CLAY, MEDIUM PLASTICITY, SOME GRAVEL, DRY			CL	2	PID=1.4 ppm BT=80-100 cpm
5.0 7.5	05/14/93 10:00	N/A		30	FIRM, (5Y, 5/3) OLIVE, AND (5Y, 5/1) GRAY, SILTY CLAY, SOME GRAVEL, MEDIUM PLASTICITY, DRY, PLASTIC, GLASS			CL	2	PID=.4 ppm BT=40-80 cpm
7.5 8.5	115364 115365 05/14/93 10:00	N/A		12	SAA, DRY			CL	2	PID=.4 ppm BT=40-80 cpm
8.5 10.0	115364 115365 05/14/93 10:00	N/A		18	HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, WITH SOME (5Y, 6/1) GRAY CLAY, NO PLASTICITY, DRY, SOME SMALL GRAVEL			ML	2.25	PID=.4 ppm BT=40-80 cpm
10.0 12.5	115368 05/14/93 10:30	N/A		30	AT 10:05 PUSHED SHELBY TUBE 10'-12', VERY HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, NO PLASTICITY, SOME (5Y, 6/1) GRAY, CLAY ALONG CLEAVAGE PLANES, DRY, SOME SMALL GRAY GRAVEL			ML	4.5	PID=.4 ppm BT=40-80 cpm
12.5 15.0	115363 05/14/93 10:30	N/A		2.5	SAA, DRY			ML	4.5	PID=.4 ppm BT=40-80 cpm
15.0 17.0	115369 05/04/93 13:15	N/A	N/A		SHELBY TUBE			N/A	N/A	
17.0	05/04/93 00:00	N/A	N/A		BOTTOM OF BORING AT 17 FEET			N/A	N/A	

NOTES:

BACKGROUND READINGS: MT = .4 PPM, BETA/GAMMA = 40-80 CPM.
1040 PUSHED SHELBY TUBE FROM 15' - 17'; NO RECOVERY

Boring Contractor: PENNSYLVANIA DRILLING CO
Driller: DON SMITH

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1990					COORDINATES: NORTH 482165.44 EAST 1379660.29			DATE: 10-MAY-93		
GROUND ELEVATION: 589.3					GWL: Depth Date/Time			DATE STARTED: 10-MAY-93		
ENGINEER/GEOLOGIST: A COMO					Depth Date/Time			DATE COMPLETE: 10-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER										
D E P T H	S A M P L E	D A T E E	B L O W S O N	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS	
2.5	115327 115328 05/10/93 13:20	N/A	30	FIRM, (2.5Y,4/3) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, DRY				CL	1.5	PID=.6 ppm BG=80-100 cpm
2.5 3.0	115327 115328 05/10/93 13:20	N/A	6	SAA				CL	1.5	PID=.6 ppm BG=80-100 cpm
3.0 5.0	115324 05/10/93 13:30	N/A	N/A	@13:30 PUSHED SHELBY TUBE FROM 3' TO 5' AUGERED FROM 3' TO 5' THEN RESUMED SAMPLING W/CME SAMPLER, PIECE OF PLASTIC AT END OF SHELBY TUBE				N/A	N/A	PID=.6 ppm BG=80-100 cpm
5.0	05/10/93 13:50	N/A	12	FIRM, (2.5Y,4/3) OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, DRY				CL	1.5	PID=.6 ppm BG=80-100 cpm
6.0 7.5	115329 115330 115367 115331 05/10/93 13:50	N/A	18	HARD, (5Y,5/1) GRAY TO (5Y,4/1) DARK GRAY, SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, SOME BLACK FLYASH, GLASS, PLASTIC CUP LIDS, DRY				CL	2	PID=1.8 ppm BG=200 cpm
7.5 9.0	115329 115367 115331 115330 05/10/93 13:50	N/A	18	SAA, MOIST				CL	1.5	PID=.6 ppm BG=300 cpm
9.0 10.0	115332 115333 05/10/93 13:50	N/A	12	SAA, MOIST-NO WASTE MATERIAL				CL	1.5	PID=.6 ppm BG=80-100 cpm
10.0 12.5	115325 115334 05/10/93 15:00	N/A	30	SAA, DRY, @ 14:05 PUSH SHELBY TUBE FROM 10' TO 12' SAMPLE #115325, PIECES OF GLASS, PLASTIC, STYROFOAM				CL	1	PID=.6 ppm BG=80-100 cpm
12.5 15.0	05/10/93 15:00	N/A	30	VERY HARD, (2.5Y,5/6) LIGHT OLIVE BROWN, SILTY CLAY, SOME (5Y,6/1) GRAY CLAY, SLIGHT PLASTICITY, DRY				CL	4.5	PID=.6 ppm BG=80-100 cpm
15.0 17.5	05/10/93 15:30	N/A	30	HARD, (2.5Y,5/6) LIGHT OLIVE BROWN, CLAYEY SILT, WITH SOME (5Y,5/1) GRAY SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, SOME WELL GRADED FINE SAND, DRY				ML	4	PID=.6 ppm BG=80-100 cpm
NOTES: USED CME SAMPLER TO 20' PUSHED SHELBY TUBE FROM 20 TO 22 FT. BACKGROUND READINGS: MT = .6 PPM, BETA/GAMMA = 80-100 CPM										Driller: DON SMITH SAM SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1990					COORDINATES: NORTH 482165.44 EAST 1379660.29			DATE: 10-MAY-93	
GROUND ELEVATION: 589.3					GWL: Depth Date/Time			DATE STARTED: 10-MAY-93	
ENGINEER/GEOLOGIST: A COMO					Depth Date/Time			DATE COMPLETE: 10-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER									
DEPTH	SAMPLE	DATE	BLOW COUNT	RECOVERY	SYNTHETIC	SCANNING	TESTING	TSF	REMARKS
17.5	115335 115336 115337 05/10/93 15:30	N/A	30	SAA, IRON STAINING ALONG CLEAVAGE PLANES			ML	4	PID=.6 ppm BR=80-100 cpm
20.0	115326 05/10/93 15:40	N/A	N/A	@ 15:40 PUSHED SHELBY TUBE FROM 20' TO 22' SAMPLE #115326			N/A	N/A	
22.0	05/10/93 00:00	N/A	N/A	BOTTOM OF BORING AT 22 FEET			N/A	N/A	
NOTES: USED CME SAMPLER TO 20' PUSHED SHELBY TUBE FROM 20 TO 22 FT. BACKGROUND READINGS: MT = .6 PPM, BETA/GAMMA = 80-100 CPM									
					Driller: DON SMITH SAM SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable				

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1991			COORDINATES: NORTH 482196.10 EAST 1379689.37			DATE: 06-MAY-93			
GROUND ELEVATION: 589.1			GWL: Depth Date/Time			DATE STARTED: 06-MAY-93			
ENGINEER/GEOLOGIST: A COMO			Depth Date/Time			DATE COMPLETE: 06-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER									
DEPTH	SAMPLE	TIME	BLOW COUNT	RECOVERY	INCHES		SYMBOL	TYPE	REMARKS
2.5	05/06/93 13:30	N/A	30		FIRM, (2.5Y,5/6) LIGHT OLIVE BROWN, AND (5Y,5/1) GRAY, SILTY CLAY, LOW PLASTICITY, SOME GRAVEL, DRY, STYROFOAM		CL	2	PID=0 ppm BG=50-70 cpm
2.5 5.0	05/06/93 13:30	N/A	30		HARD, (5Y,5/1) GRAY, AND (5Y,5/6) OLIVE, SILTY CLAY, SLIGHT PLASTICITY, SOME GRAVEL, DRY, STYROFOAM		CL	3	PID=0 ppm BG=50-70 cpm
5.0 6.0	05/06/93 13:45	N/A	12		SAA		CL	3	PID=0 ppm BG=50-70 cpm
6.0 7.5	05/06/93 13:45	N/A	18		FIRM, (5Y,5/1) GRAY, SILTY CLAY, MEDIUM PLASTICITY, SOME GRAVEL, MOIST		CL	1.75	PID=0 ppm BG=50-70 cpm
7.5 9.0	115319 115320 05/06/93 13:45	N/A	18		FIRM, (5Y,5/1) GRAY, SILTY CLAY, MEDIUM PLASTICITY, SOME GRAVEL, MOIST, SMALL PIECE OF STRIP METAL, PLASTIC, SOME BLACK WASTE MATERIAL		CL	1.75	PID=0 ppm BG=50-70 cpm
9.0 10.0	115319 115320 05/06/93 13:45	N/A	12		HARD, (2.5Y,5/6) LIGHT OLIVE BROWN, SILTY CLAY, SOME (5Y,5/1) GRAY, SILTY CLAY, SLIGHT PLASTICITY, DRY		CL	2.5	PID=0 ppm BG=50-70 cpm
10.0 12.5	05/06/93 14:00	N/A	30		HARD, (2.5Y,5/6) LIGHT OLIVE BROWN, SILTY CLAY, WITH SOME (5Y,6/1) GRAY, SILTY CLAY, SOME SMALL GRAVEL, LOW PLASTICITY, DRY		CL	2.5	PID=0 ppm BG=50-70 cpm
12.5 15.0	115321 05/06/93 14:00	N/A	30		SAA		CL	4	PID=0 ppm BG=50-70 cpm
15.0 17.0	115322 05/06/93 14:15	N/A	N/A		PUSHED SHELBY TUBE		N/A	N/A	
17.0	05/06/93 00:00	N/A	N/A		BOTTOM OF BORING AT 17 FEET		N/A	N/A	

NOTES:

HOLLOW STEM AUGER W/CME SAMPLER USED TO COLLECT SOIL SAMPLES TO 15.0'. SHELBY TUBE WAS THEN PUSHED FROM 15.0' TO 17.0'.

BACKGROUND READINGS: MT = 0 PPM, BETA/GAMMA = 50-70 CPM

Driller: DON SMITH

SAA = Same as Above

PID = Photoionization Detector

N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1992					COORDINATES: NORTH 482243.09 EAST 1379770.85 DATE: 11-MAY-93					
GROUND ELEVATION: 590					GWL: Depth Date/Time DATE STARTED: 11-MAY-93					
ENGINEER/GEOLOGIST: A COMO					Depth Date/Time DATE COMPLETE: 11-MAY-93					
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER										
D E P T H	S A M P L E	D A T E	B L O W S O N	T I M E	R E C O R D E S	I N C H E S	S Y U S M C B S O L	T S F	REMARKS	
2.5		05/11/93 15:15	N/A	30	HARD (2.5Y, 6/4) LIGHT YELLOWISH BROWN AND (5Y, 5/1) GRAY, SILTY CLAY, NO PLASTICITY, SOME SMALL GRAVEL, DRY			CL	4	PID=.6 ppm BT=40-80 cpm
2.5 3.0		05/11/93 15:15	N/A	6	SAA, DRY			CL	4	PID=.6 ppm BT=40-80 cpm
3.0 5.0	115348 05/11/93 15:20	N/A	24	@ 15:20 PUSHED SHELBY TUBE FROM 3' TO 5'			N/A	N/A		
5.0 7.5	05/11/93 15:35	N/A	30	FIRM (5Y, 5/3) OLIVE, SILTY CLAY, MEDIUM PLASTICITY, SOME SMALL GRAVEL, DRY			CL	1.25	PID=.6 ppm BT=40-80 cpm	
7.5 10.0	115343 115344 115345 05/11/93 15:35	N/A	30	SAA, DRY, PIECES OF BURNT WOOD			CL	1.25	PID=.6 ppm BT=40-80 cpm	
10.0 12.0	05/11/93 15:50	N/A	24	FIRM (2.5Y, 5/1) GRAY SILTY CLAY, LOW PLASTICITY, SOME (5Y, 2.5/1) BLACK CLAY, SOME (2.5Y, 5/4) LIGHT OLIVE BROWN SILT, SOME GRAVEL, DRY			CL	1	PID=.6 ppm BT=40-80 cpm	
12.0 12.5	05/11/93 15:50	N/A	6	(2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, SOME (5Y, 5/1) GRAY, SILTY CLAY, FEW PIECES OF GRAVEL, DRY			ML	N/A	PID=.6 ppm BT=40-80 cpm	
12.5 15.0	05/11/93 15:50	N/A	30	SAA, DRY			ML	4.5	PID=.6 ppm BT=40-80 cpm	
15.0 17.5	05/11/93 16:35	N/A	30	(2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, SLIGHT PLASTICITY, FEW PIECES OF GRAVEL, DRY			ML	N/A	PID=.6 ppm BT=40-80 cpm	
17.5 20.0	115346 05/11/93 16:35	N/A	30	SAA, DRY, IRON STAINING ON CLEAVAGE PLANES			ML	N/A	PID=.6 ppm BT=40-80 cpm	
20.0 22.0	115349 05/11/93 16:45	N/A	N/A	@ 16:45 PUSHED SHELBY TUBE FROM 20' TO 22'			N/A	N/A		
22.0	05/11/93 00:00	N/A	N/A	BOTTOM OF BORING AT 22 FEET			N/A	N/A		
NOTES: SOIL BORING USING CME SAMPLER SHELBY TUBE FROM 20' TO 22.5' ARCHIVED. BACKGROUND READINGS: MT = .6 PPM, BETA/GAMMA = 40-80 CPM										
Boring Contractor: PENNSYLVANIA DRILLING CO. Driller: DON SMITH, SAM SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 1993					COORDINATES: NORTH 482177.83 EAST 1379778.93			DATE: 11-MAY-93				
GROUND ELEVATION: 589.4					GWL: Depth	Date/Time		DATE STARTED: 11-MAY-93				
ENGINEER/GEOLOGIST: A COMO					Depth	Date/Time		DATE COMPLETE: 11-MAY-93				
DRILLING METHOD: HOLLOW STEM AUGER W/CME SAMPLER												
DEPTH	SAMPLE TIME	BLOW COUNT	RECOVERY	INCHES	SYMBOL	TYPICAL SOIL	TEST F	REMARKS				
2.0	05/11/93 09:15	N/A	24	VERY HARD (2.5Y, 4/4) LIGHT OLIVE BROWN, AND (5Y, 5/1) GRAY, SILTY CLAY, NO PLASTICITY, SOME SMALL GRAVEL, DRY			CL	4.5	PID=0 ppm BT=40-60 cpm			
2.5	05/11/93 09:15	N/A	6	FIRM (5Y, 5/1) GRAY, SILTY CLAY, SOME (5Y, 5/3) OLIVE, SILTY CLAY, SOME GRAVEL, DRY, PIECES OF CONCRETE, METAL, PLASTIC CUP LIDS, BLACK ASH			CL	1.75	PID=0 ppm BT=40-60 cpm			
2.5	115339 05/11/93 09:15	N/A	30	SAA, DRY			CL	1.75	PID=0 ppm BT=40-60 cpm			
5.0	05/11/93 09:30	N/A	30	FIRM (5Y, 5/1) GRAY, SILTY CLAY, SOME (5Y, 5/3) OLIVE, SILTY CLAY, SOME GRAVEL, DRY			CL	1	PID=0 ppm BT=40-60 cpm			
7.5	05/11/93 09:30	N/A	30	HARD (5Y, 5/1) GRAY TO (5Y, 4/1) DARK GRAY, SILTY CLAY, SLIGHT PLASTICITY, DRY			CL	2.5	PID=0 ppm BT=40-60 cpm			
10.0	05/11/93 09:50	N/A	30	HARD (2.5Y, 5/6) LIGHT OLIVE BROWN, AND (5Y, 5/1) GRAY, SILTY CLAY, MEDIUM PLASTICITY, SOME SMALL GRAVEL, DRY			CL	2.5	PID=0 ppm BT=40-60 cpm			
12.5	05/11/93 09:50	N/A	30	HARD (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAYEY SILT, NO PLASTICITY, SOME (5Y, 5/1) GRAY CLAY, FEW PIECES OF GRAVEL, DRY			ML	3	PID=0 ppm BT=40-60 cpm			
15.0	115340 05/11/93 10:15	N/A	30	VERY HARD (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAYEY SILT, NO PLASTICITY, FEW PIECES OF GRAVEL, DRY.			ML	4.5	PID=0 ppm BT=40-60 cpm			
17.5	05/11/93 10:15	N/A	1.5	VERY HARD (2.5Y, 5/6) LIGHT OLIVE BROWN AND (5Y, 5/1) GRAY CLAYEY SILT, NO PLASTLICITY, FEW PIECES OF GRAVEL, DRY			ML	4.5	PID=0 ppm BT=40-60 cpm			
19.0	115342 05/11/93 10:25	N/A	N/A	@10:25 DROVE SHELBY TUBE FROM 19.0" TO 21.0" (SAMPLE #115342)			N/A	N/A				
21.0	05/11/93 00:00	N/A	N/A	BOTTOM OF BORING AT 21 FEET			N/A	N/A				
NOTES: SOIL BORING USING CME SAMPLER. PUSHED SHELBY TUBE FROM 19.0' TO 21.0'. BACKGROUND READINGS: MT = 0 PPM, BETA/GAMMA = 40-60 CPM												
Driller: DON SMITH, SAM SMITH SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable												

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION							
BORING NUMBER: 2027					COORDINATES: NORTH 481969.29 EAST 1379317.37							
GROUND ELEVATION: 582.7					GWL: Depth	Date/Time		DATE STARTED: 10-DEC-87				
ENGINEER/GEOLOGIST: KEGLEY/OAKLEY					Depth	Date/Time		DATE COMPLETE: 17-DEC-87				
DRILLING METHOD: CABLE-TOOL DRILLING												
D E P T H	S A M P L E	D A T E E N	B L O W S E	S A M P L E R Y	R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS		
1.5	007841 12/10/87 13:10	4 4 4	4	14	VERY STIFF YELLOWISH-BROWN (10YR, 5/4) SILT, SOME SAND AND GRAVEL, TRACE CLAY - DRY.					ML	3.5	PID=0 ppm $\alpha=0$ ppm $BR=120$ cpm
1.5	007842 12/10/87 13:35	4 7 7	7	12	VERY STIFF YELLOWISH BROWN (10YR, 5/4) SILT, SOME SAND AND GRAVEL, TRACE CLAY - DRY. HARD GRAY (2.5, 5/0) SILT, SOME SAND AND LIMESTONE GRAVEL, TRACE CLAY - DRY. HARD YELLOWISH BROWN (10YR, 5/4) SILT AND CLAY, SOME GRAVEL - DRY.					ML ML ML	3.5 4.5 4.0	PID=0 ppm $\alpha=0$ ppm $BR=120$ cpm
3.0	007843 12/10/87 13:50	8 8 9	8	15	HARD YELLOWISH BROWN (10YR, 5/4) SILT AND CLAY, SOME GRAVEL - DRY.					ML	4.0	PID=0 ppm $\alpha=0$ ppm $BR=120$ cpm
4.5	007844 12/10/87 14:00	14 24 28	14	15	HARD YELLOWISH BROWN (10YR, 5/4) SILT AND CLAY, SOME GRAVEL - DRY. DENSE LIGHT GRAY (10YR, 7/2) LIMESTONE GRAVEL AND CLAY - DRY.					ML GC	4.5	PID=0 ppm $\alpha=0$ ppm $BR=120$ cpm
6.0	007845 12/10/87 14:10	14 23 26	14	15	HARD YELLOWISH BROWN (10YR, 5/6) MOTTLED SILT AND CLAY, SOME GRAVEL AND SAND - DRY.					ML	4.5+	PID=0 ppm $\alpha=0$ ppm $BR=120$ cpm
7.5	007846 12/10/87 16:23	4 12 19	12	14	HARD YELLOWISH BROWN (10YR, 5/6) CLAY AND SILT, SOME SAND, TRACE GRAVEL - VERTICAL FRACTURES WITH IRON STAINING - DRY					CL	4.5+	PID=0 ppm $\alpha=0$ ppm $BR=60$ cpm
10.5	007847 12/10/87 16:44	13 17 22	17	18	HARD STRONG BROWN (7.5YR, 5/6) SILT, SOME SAND AND CLAY - DRY. VERTICAL FRACTURES WITH IRON STAINING.					ML	4.5+	PID=0 ppm $\alpha=0$ ppm $BR=60$ cpm
10.5	007848 12/10/87 17:02	6 12 18	12	10	HARD YELLOWISH BROWN (10YR, 5/6) SILT, SOME SAND AND CLAY - DRY. VERTICAL FRACTURES WITH IRON STAINING.					ML	4.5	PID=0 ppm $\alpha=0$ ppm $BR=60$ cpm
12.0	007849 12/11/87 08:25	12 15 24	15	18	HARD LIGHT YELLOWISH BROWN (2.5Y, 6/4) SILT, SOME CLAY AND GRAVEL, TRACE SAND - DRY.					ML	3.25	PID=0 ppm $\alpha=0$ ppm $BR=80$ cpm
13.5	007850 12/11/87 08:50	7 12 6	12	13	VERY STIFF LIGHT YELLOWISH BROWN SILTY CLAY, TRACE FINE GRAVEL AND SAND - MOIST.					CL	3.75	PID=0 ppm $\alpha=0$ ppm $BR=80$ cpm
15.0	007851 12/11/87 09:05	5 7 12	7	15	VERY STIFF LIGHT YELLOWISH BROWN (2.5YR, 6/4) CLAY, SOME SILT, TRACE FINE GRAVEL AND SAND - MOIST. VERY STIFF GRAY (5Y, 5/1) CLAY, TRACE SAND AND SILT - MOIST.					CL CL	3.5 1.5	PID=0 ppm $\alpha=0$ ppm $BR=70$ cpm
16.5	007852 12/11/87 09:15	7 15 15	15	18	VERY STIFF LIGHT YELLOWISH BROWN (2.5YR, 6/4) CLAY, SOME SILT, TRACE GRAVEL AND SAND - MOIST.					CL	3.5	PID=0 ppm $\alpha=2$ ppm $BR=70$ cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable		

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PROJECT NUMBER: 602 3.2				PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 2027				COORDINATES: NORTH 481969.29 EAST 1379317.37			DATE: 10-DEC-87			
GROUND ELEVATION: 582.7				GWL: Depth Date/Time			DATE STARTED: 10-DEC-87			
ENGINEER/GEOLOGIST: KEGLEY/OAKLEY				Depth Date/Time			DATE COMPLETE: 17-DEC-87			
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A D M P L E	D T I M E E E	B L O W S P L E	S A M P L E R E C O V P L E	I N C H E R E Y		S Y U S M C B S O L	T S F	REMARKS	
18.0 19.5	007853 12/14/87 08:20	3 7 11	5	VERY STIFF LIGHT YELLOWISH BROWN (2.5Y, 6/4) CLAY, SOME SILT, TRACE GRAVEL AND SAND - MOIST. VERY STIFF OLIVE GRAY (5Y, 5/2) CLAY, SOME SILT, TRACE GRAVEL AND SAND - WET.				CL CH	3.5 1.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
19.5 21.0	007854 12/14/87 08:40	4 5 8	9	STIFF OLIVE GRAY (5Y, 5/2) CLAY, SOME SILT AND GRAVEL - MOIST.				CH	1.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
21.0 22.5	007855 12/14/87 08:50	7 7	8	STIFF OLIVE GRAY (5Y, 5/2) CLAY, SOME GRAVEL AND SILT, TRACE SAND - WET. MEDIUM DENSE OLIVE GRAY (5Y, 5/2) SAND, SOME GRAVEL, TRACE CLAY - WET.				CH SW	1.25	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
22.5 24.0	007856 12/14/87 09:15	7 7 6	7	MEDIUM DENSE OLIVE GRAY (5Y, 5/2) SAND AND GRAVEL, TRACE CLAY - WET.				SW	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
24.0 25.5	007857 12/14/87 09:35	22 14 21	7	DENSE OLIVE GRAY (5Y, 5/2) SAND AND GRAVEL - WET. HARD LIGHT OLIVE GRAY (5Y, 6/2) CLAY, SOME SAND, AND GRAVEL, TRACE SILT - DRY.				SW CL	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=50$ cpm
25.5 27.0	007858 12/14/87 10:40	11 31 37	5	HARD LIGHT OLIVE GRAY (5Y, 6/2) CLAY, SOME SAND, AND GRAVEL, TRACE SILT - DRY. VERY DENSE LIGHT OLIVE GRAY (5Y, 6/2) CLAYEY GRAVEL, SOME SAND - WET.				CL GC	N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40$ cpm
27.0 28.5	007859 12/14/87 11:00	24 44 27	16	VERY DENSE LIGHT OLIVE GRAY (5Y, 6/2) CLAYEY GRAVEL, SOME SAND - WET. VERY DENSE LIGHT OLIVE GRAY (5Y, 6/2) SAND AND GRAVEL - MOIST. HARD GREEN (NOT CLOSE TO ANY MUNSELL COLOR) GRAVELLY CLAY, SOME SILT - MOIST.				GC SW CL	N/A 2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
28.5 30.0	007860 12/14/87 13:30	13 16 27	10	HARD OLIVE GRAY (5Y, 5/2) CLAY, SOME GRAVEL AND SAND, TRACE SILT - MOIST.				CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
30.0 31.5	007861 12/14/87 13:50	4 11 15	14	VERY STIFF OLIVE GRAY (5Y, 5/2) CLAY, SOME GRAVEL, TRACE SAND AND SILT - MOIST.				CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60$ cpm
31.5 33.0	007862 12/14/87 14:15	7 11 27	14	HARD OLIVE GRAY (5Y, 5/2) CLAY, TRACE GRAVEL, SAND, AND SILT.				CL	2.75	$\alpha=0$ ppm $\beta\Gamma=70$ cpm
33.0 34.5	007863 12/14/87 15:30	5 15 17	15	HARD OLIVE GRAY (5Y, 5/2) CLAY, SOME GRAVEL, TRACE SAND AND SILT - MOIST.				CL	2.75	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=30$ cpm
34.5 36.0	007864 12/14/87 15:50	5 12 19	18	HARD OLIVE GRAY (5Y, 5/2) CLAY, TRACE GRAVEL, SAND, AND SILT - MOIST.				CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=70$ cpm
NOTES:										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION				
BORING NUMBER: 2027					COORDINATES: NORTH 481969.29 EAST 1379317.37				
GROUND ELEVATION: 582.7					GWL: Depth	Date/Time			DATE STARTED: 10-DEC-87
ENGINEER/GEOLOGIST: KEGLEY/OAKLEY					Depth	Date/Time			DATE COMPLETE: 17-DEC-87
DRILLING METHOD: CABLE-TOOL DRILLING									
D E P T H	S A M P L E	D A T E E E	B L O W S O N	R A M P L E	I N C O V E R Y		S U Y S M S C B S O L	T S F	REMARKS
36.0 37.5	007865 12/15/87 09:15	7 11 18	3		VERY STIFF OLIVE GRAY (5Y, 5/2) CLAY, TRACE GRAVEL, SAND, AND SILT - MOIST.		CL	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
37.5 39.0	007866 12/15/87 09:40	7 12 15	14		VERY STIFF OLIVE GRAY (5Y, 5/2) CLAY, SOME GRAVEL, TRACE SAND AND SILT - MOIST.		CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
39.0 40.5	007867 12/15/87 10:05	8 20 30	6		VERY STIFF OLIVE GRAY (5Y, 5/2) CLAY, SOME GRAVEL, TRACE SAND AND SILT - MOIST.		CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40$ cpm
40.5 42.0	007868 12/15/87 11:05	7 9 13	16		VERY STIFF OLIVE GRAY (5Y, 5/2) CLAY, SOME GRAVEL, TRACE SAND AND SILT - MOIST. VERY STIFF GRAY (5Y, 6/1) SILT - WET.		CL ML	1.5 0.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
42.0 43.5	007869 12/15/87 13:35	16 24 40	15		HARD GRAY (5Y, 6/1) SILT - MOIST. HARD DARK YELLOWISH BROWNISH (10YR, 4/4) SILT - MOIST. VERY DENSE DARK YELLOWISH BROWN (10YR, 4/4) SAND AND GRAVEL - DRY.		ML ML SW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
60.0 61.5	007873 12/16/87 13:35	30 49 32	8		VERY DENSE YELLOWISH BROWN (10YR, 5/4) GRAVEL AND SAND - MOIST. VERY DENSE GRAY (10YR, 5/1) SAND, SOME GRAVEL - MOIST.		GW SW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100$ cpm
65.0 66.5	007874 12/16/87 14:35	25 25 25	10		DENSE DARK GRAY (10YR, 4/1) SAND, SOME GRAVEL - WET.		SW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm
70.0 71.5	007875 12/16/87 15:50	11 13 15	9		MEDIUM DENSE DARK GRAY (10YR, 4/1) FINE SAND, TRACE GRAVEL - WET.		SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm
75.0 76.5	007876 12/17/87 09:35	44 25 24	18		DENSE DARK GRAY (10YR, 4/1) SAND AND GRAVEL - WET.		SW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
NOTES:									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 2052					COORDINATES: NORTH 482507.16 EAST 1380139.73					
GROUND ELEVATION: 584.5					GWL: Depth Date/Time					
ENGINEER/GEOLOGIST: W. KEGLEY					Depth Date/Time					
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS	
1.5	007249 11/01/87 08:50	9 13 7		10	HARD OLIVE BROWN (2.5, 4/4) CLAY - DRY.			CL	4.5+	PID=0 ppm α =60-80 ppm $\beta\Gamma$ =0 cpm
1.5 3.0	007250 11/01/87 09:15	6 10 8		6	HARD, DARK, GRAYISH BROWN (2.5, 4/2) CLAY, SOME SILT - DRY.			CL	4.5+	PID=0 ppm α =60-80 ppm $\beta\Gamma$ =0 cpm
3.0 4.5	007251 11/01/87 09:30	7 6 8		16	VERY STIFF, GRAYISH BROWN (2.5, 5/2) CLAY. SOME SILT, TRACE SAND - DRY.			CL	3.0	PID=0 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm
4.5	007253 11/01/87 09:50	8 6 8		18	STIFF YELLOW (2.5, 7/6) SILT, SOME CLAY, TRACE SAND - DRY.			ML	1.5	PID=7 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm
6.0 7.5	007255 11/01/87 10:15	8 5 6		18	STIFF YELLOW (2.5, 7/6) SILT, SOME CLAY, TRACE SAND - DRY.			ML	1.5	PID=7 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm
7.5 9.0	007256 11/01/87 10:45	8 7 10		18	VERY STIFF, LIGHT OLIVE BROWN (2.54, 5/4) SILT, SOME CLAY AND SAND TRACE GRAVEL - MOIST.			ML	2.5	PID=0 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm
9.0 10.5	007257 11/01/87 13:30	8 9 14		12	MEDIUM STIFF, GRAYISH BROWN (2.5Y, 5/2) CLAY AND SILT, SOME GRAVEL - MOIST.			ML	1.5	PID=0 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm
10.5 12.0	007258 11/01/87 14:10	13 9 11		13	VERY STIFF, GRAY (2.54, 5/0) SILT, SOME SAND AND GRAVEL - DRY.			ML	2.5	PID=0 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm
13.5 15.0	007260 11/01/87 14:20	3 7 12		14	VERY STIFF, GRAY (5Y, 5/1) SILT, SOME SAND, TRACE OF GRAVEL - DRY.			ML	2.5	PID=0 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm
15.0 16.5	007261 11/01/87 15:30	14 16 19		18	VERY STIFF, GRAY (5Y, 5/1) SILT, SOME CLAY, TRACE OF SAND AND GRAVEL - DRY.			ML	3.5	PID=0 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm
16.5 18.0	007262 11/01/87 15:45	8 10 12		12	VERY STIFF, GRAY (5Y, 5/1) SILT, SOME SAND AND GRAVEL, TRACE CLAY - DRY.			ML	2.5	PID=0 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm
18.0 19.5	007263 11/01/87 16:00	7 9 11		9	VERY STIFF, GRAY (5Y, 5/1) SILT AND SAND, SOME GRAVEL - DRY.			ML	2.5	PID=0 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm
19.5 21.0	007264 11/01/87 16:30	1 3 2		2	LOOSE, GRAY (5Y, 5/1) GRAVEL AND COURSE SAND, TRACE CLAY - WET.			GW	N/A	PID=0 ppm α =0 ppm $\beta\Gamma$ =60-100 cpm

NOTES:

SAA = Same as Above
 PID = Photoionization Detector
 N/A = Not Applicable

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FEMP-OU02-4 DRAFT

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 2052					COORDINATES: NORTH 482507.16 EAST 1380139.73			DATE: 01-NOV-87		
GROUND ELEVATION: 584.5					GWL: Depth	Date/Time		DATE STARTED: 01-NOV-87		
ENGINEER/GEOLOGIST: W. KEGLEY					Depth	Date/Time		DATE COMPLETE: 03-NOV-87		
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D A T E E E	T I M E E E	B L O W S P L E O N	R E A C C P L E R E V H E E S	I N C H E R E S	S U Y S M C B S O L	T S F	REMARKS	
21.0 22.5	007265 11/01/87 17:25	3 5 8		1	MEDIUM, DENSE (5Y, 5/1) GRAY GRAVEL AND COUSE SAND, SOME CLAY - WET.			GC	N/A	PID=0 ppm q=0 ppm BI=60-100 cpm
22.5 24.0	007266 11/01/87 17:30	1 9 9	14		VERY STIFF (5Y, 5/1) GRAY SAND AND GRAVEL, CLAY AND SILT - MOIST.			SM	2.5	PID=0 ppm q=0 ppm BI=60-100 cpm
24.0 25.5	007267 11/01/87 17:50	7 9 11	18		MEDIUM, DENSE GRAY (2.5Y, 5/1) SAND AND SILT WITH SOME GRAVEL AND CLAY.			SM	1.5	PID=0 ppm q=0 ppm BI=60-100 cpm
25.5 27.0	007268 11/02/87 08:10	2 3 4	15		LOOSE, GRAY (2.5Y, 5/0) SILT AND SAND, SOME GRAVEL AND CLAY - WET.			ML	N/A	PID=0 ppm q=0 ppm BI=60-100 cpm
27.0 28.5	007269 11/02/87 10:00	2 3 5	2		LOOSE, GRAY (2.5Y, 5/0) GRAVEL AND CLAY, SOME SILT - WET.			GC	N/A	PID=0 ppm q=0 ppm BI=60-100 cpm
28.5 30.0	007270 11/02/87 13:25	3 7 13	14		MEDIUM STIFF, LIGHT OLIVE GRAY (5Y, 6/2) SILT AND CLAY, SOME GRAVEL - DRY.			ML	0.5	PID=0 ppm q=0 ppm BI=60-100 cpm
30.0 31.5	007271 11/02/87 13:45	3 6 13	10		VERY STIFF, OLIVE GRAY (5Y, 5/2) CLAY AND SILT, SOME GRAVEL, TRACE OF WOOD FRAGMENTS - DRY.			CL	3.5	PID=0 ppm q=0 ppm BI=60-120 cpm
31.5 33.0	007272 11/02/87 14:05	6 11 11	18		VERY STIFF, OLIVE GRAY (5Y, 5/2) SILT AND CLAY, SOME GRAVEL, TRACE OF SAND - DRY.			ML	3.0	PID=0 ppm q=0 ppm BI=60-120 cpm
33.0 34.5	007273 11/02/87 14:35	16 36 30	N/A		STIFF, OLIVE GRAY (5Y, 5/2) SILT AND CLAY, SOME GRAVEL AND SAND - DRY. DENSE LIGHT OLIVE BROWN (2.5Y, 5/4) SAND, SOME GRAVEL - DRY.			ML GW	1.0 N/A	PID=0 ppm q=0 ppm BI=60-120 cpm
35.0 36.5	007274 11/02/87 16:25	16 17 22	15		DENSE STRONG BROWN (7.5YR 4/6) SAND AND GRAVEL, SOME SILT, DRY			GW	N/A	PID=0 ppm q=0 ppm BI=60-120 cpm
40.0 41.5	007275 11/02/87 16:55	21 27 31	13		VERY DENSE, STRONG BROWN (7.5YR, 5/6) SAND, TRACE GRAVEL, SILT - WET.			SP	N/A	PID=0 ppm q=0 ppm BI=60-120 cpm
45.0 46.5	007276 11/02/87 17:00	11 30 42	12		VERY DENSE, STRONG BROWN (7.5YR, 5/6) SAND AND GRAVEL - DRY.			GW	N/A	PID=0 ppm q=0 ppm BI=60-120 cpm
50.0 51.5	007277 11/03/87 08:55	37 47 50	13		VERY DENSE, YELLOW (10YR, 7/6) SAND, SOME GRAVEL, TRACE SILT - DRY.			GW	N/A	PID=0 ppm q=0 ppm BI=60-120 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 602 3.2				PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 2052				COORDINATES: NORTH 482507.16 EAST 1380139.73			DATE: 01-NOV-87		
GROUND ELEVATION: 584.5				GWL: Depth	Date/Time		DATE STARTED: 01-NOV-87		
ENGINEER/GEOLOGIST: W. KEGLEY				Depth	Date/Time		DATE COMPLETE: 03-NOV-87		
DRILLING METHOD: CABLE-TOOL DRILLING									
D E P T H	S A M P L E	D A T E E E	T I M E S P L E R Y	B L O W M E S P L E R Y	R E C O V E R E S	I N C H E S H E S	S U S C S O L	T S F	REMARKS
55.0	007278	29		23	12	DENSE, DARK YELLOWISH BROWN (10YR, 4/6) SAND, SOME GRAVEL - WET	GW	N/A	PID=0 ppm $\alpha=0$ ppm BI=60-120 cpm
56.5	11/03/87 11:50	23		24		MEDIUM DENSE, YELLOWISH BROWN SAND AND GRAVEL - WET (10YR, 5/4).	GW	N/A	PID=0 ppm $\alpha=0$ ppm BI=60-120 cpm
65.0	007560	3		8	7	DENSE COARSE GRAVELLY GREY (10YR 5/1) SAND WET.	SW	N/A	PID=0 ppm $\alpha=80-100$ ppm
66.5	11/03/87 15:05	8		9					
80.0	008629	13		22	3				
81.5	07/22/88 14:30	22		22					
NOTES:									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05	PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2947	COORDINATES: NORTH 482120.02 EAST 1379906.75			DATE:07-APR-93	
GROUND ELEVATION: 589.8	GWL: Depth 72.1 Date/Time 13-Apr-93 13:20			DATE STARTED: 07-APR-93	
ENGINEER/GEOLOGIST: P MCCARREN	Depth 68.1 Date/Time 18-Apr-93 14:20			DATE COMPLETE: 18-APR-93	

DRILLING METHOD: CABLE TOOL

D E P T H	S A M P L E	D A T E E E	T I M E S O N	B L O W S P L E O N	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS
1.5	111339 04/07/93 09:20	6 15 15	12	STIFF, (10YR, 3/2) DARK BROWN SILTY CLAY, MOTTLING SOME SAND AND PLANT FIBERS, LOW PLASTICITY, MOIST	CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm		
1.5 3.0	111340 04/07/93 09:35	12 13 15	8	STIFF, (10YR, 5/4) BROWN, SILTY CLAY MOTTLING, SOME FINE SAND, LOW PLASTICITY, MOIST	CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-120$ cpm		
3.0 4.5	111341 04/07/93 09:40	10 12 11	10	SAA	CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-120$ cpm		
4.5 6.0	111342 04/07/93 09:42	11 11 10	12	STIFF, (10YR, 4/2) DARK BROWN, SILTY CLAY, REDDISH MOTTLING, SOME FINE SAND, LOW PLASTICITY, MOIST	CL	1.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-120$ cpm		
6.0 7.5	111343 04/07/93 09:52	3 5 8	9.5	VERY STIFF, (10YR, 5/2) GRAYISH BROWN SILTY CLAY MOTTLING, SOME FINE SAND AND GRAVELS, LOW PLASTICITY, MOIST	CL	3.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm		
7.5 9.0	111344 04/07/93 09:55	9 11 14	18	VERY STIFF, (10YR, 5/2) GRAYISH BROWN, SILTY CLAY, MOTTLING, SOME FINE SAND, LOW PLASTICITY, MOIST 9"-18" VERY STIFF (10YR, 5/1) GRAY CLAYEY SILT, MEDIUM PLASTICITY, MOIST	CL ML	3.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-120$ cpm		
9.0 10.5	111345 04/07/93 10:05	13 25 28	18	VERY STIFF, (10YR, 5/4) YELLOWISH BROWN, SILTY CLAY MOTTLING, SOME FINE SAND, TRACE SMALL GRAVELS, LOW PLASTICITY, MOIST	CL	3.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-120$ cpm		
10.5 12.0	111346 04/07/93 10:25	9 22 17	16	SAA	CL	3.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-120$ cpm		
12.0 13.5	111347 04/07/93 10:35	10 13 16	18	VERY STIFF, (10YR, 5/1) GRAY CLAYEY SILT MOTTLING (RED OXIDE) SOME FINE SAND AND SMALL GRAVEL, LOW PLASTICITY, MOIST	ML	3.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-120$ cpm		
13.5 15.0	111348 04/07/93 13:35	12 19 16	18	VERY STIFF, (10YR, 5/3) BROWN CLAYEY SILT FINE SAND, SOME SMALL GRAVELS, OXIDE STAIN, LOW PLASTICITY, MOIST	ML	3.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm		
15.0 16.5	111349 04/07/93 14:35	7 10 16	16	VERY STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN CLAYEY SILT, FINE SAND, SOME SMALL GRAVELS, OXIDE STAIN, LOW PLASTICITY, MOIST	ML	2.0	PID=0.0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm		
16.5 18.0	111350 04/07/93 14:45	7 11 17	16	SAA	ML	2.0	PID=0.0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm		
18.0 19.5	111351 04/07/93 14:50	9 17 25	16	VERY STIFF, (2.5Y, 4/16) DARK GRAY, CLAYEY SILT, SOME SMALL GRAVELS, OXIDE STAIN, LOW PLASTICITY, MOIST	ML	3.0	PID=0.0 ppm $\alpha=0$ ppm $\delta\Gamma=80-100$ cpm		

NOTES:

CEMENT PLACED FROM 0.0 TO 1.0 TO HOLD PROTECTIVE PIPE
IN PLACEDriller: CRAIG COULTER
Drilling Equipment: 72 SPEED STARSAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

02/02/94 13:57

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2947					COORDINATES: NORTH 482120.02 EAST 1379906.75				
GROUND ELEVATION: 589.8					GWL: Depth 72.1 Date/Time 13-Apr-93 13:20				
ENGINEER/GEOLOGIST: P MCCARREN					Depth 68.1 Date/Time 18-Apr-93 14:20				
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E	A D T E E	B L O W S O N	S A M P L E	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS
19.5 21.0	111352 04/07/93 15:05	9 16 26	16 26	18	SAA		ML	2.5	PID=0.0 ppm α =0 ppm BT=60-80 cpm
21.0 22.5	111353 04/07/93 15:15	7 12 27	12 27	16	SAA		ML	3.0	PID=0.0 ppm α =0 ppm BT=60-80 cpm
22.5 24.0	111354 04/07/93 16:05	7 15 17	15 17	16	VERY STIFF, (2.5Y, 4/1) DARK GRAY CLAYEY SILT, SMALL GRAVELS, LOW PLASTICITY, MOIST		ML	2.0	PID=0.0 ppm α =0 ppm BT=60-80 cpm
24.0 25.5	111355 04/07/93 16:15	9 15 20	15 20	14	SAA		ML	2.5	PID=0.0 ppm α =0 ppm BT=60-80 cpm
25.5 27.0	111356 04/07/93 16:25	6 12 20	12 20	6	SAA		ML	3.5	PID=0.0 ppm α =0 ppm BT=60-80 cpm
27.0 28.5	111357 04/08/93 10:25	8 11 19	11 19	6	SAA		ML	2.5	PID=0 ppm α =0 ppm BT=60-80 cpm
28.5 30.0	111358 04/08/93 10:35	7 10 17	10 17	4	SAA		ML	2.0	PID=0 ppm α =0 ppm BT=40-60 cpm
30.0 31.5	111359 04/08/93 10:45	7 17 25	17 25	3	SAA		ML	3.0	PID=0 ppm α =0 ppm BT=40-60 cpm
31.5 33.0	111360 04/08/93 10:55	7 12 23	12 23	12	SAA		ML	2.5	PID=0 ppm α =0 ppm BT=40-60 cpm
33.0 34.5	111361 04/08/93 13:45	8 13 16 16	13 16	8	SAA		ML	2.5	PID=0 ppm α =0 ppm BT=40-60 cpm
34.5 36.0	111362 04/08/93 14:00	16 50	50	4	VERY STIFF, (2.5Y, 4/1) DARK GRAY CLAYEY SILT, SMALL GRAVELS, LOW PLASTICITY, SOME SAND, MOIST		ML	3.0	PID=0 ppm α =0 ppm BT=40-60 cpm
36.0 37.5	111363 04/08/93 14:25	50/3"	3	SAA			ML	2.0	PID=0 ppm α =0 ppm BT=40-60 cpm
37.5 39.0	111364 04/08/93 14:45	12 17 20	17 20	18	SAA		ML	3.5	PID=0 ppm α =0 ppm BT=40-60 cpm
NOTES: CEMENT PLACED FROM 0.0 TO 1.0 TO HOLD PROTECTIVE PIPE IN PLACE					Driller: CRAIG COULTER Drilling Equipment: 72 SPEED STAR				
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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92/02/94 13:57

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 2947					COORDINATES: NORTH 482120.02 EAST 1379906.75											
GROUND ELEVATION: 589.8					GWL: Depth 72.1	Date/Time 13-Apr-93 13:20	DATE STARTED: 07-APR-93									
ENGINEER/GEOLOGIST: P MCCARREN					Depth 68.1	Date/Time 18-Apr-93 14:20	DATE COMPLETE: 18-APR-93									
DRILLING METHOD: CABLE TOOL																
D E P T H	S A M P L E	D A T E E N O N	T I M E E E R Y	B L O W S P L E N C O V E R Y	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS							
39.0 40.5	111365 04/08/93 15:00	40 23 25	16	VERY STIFF, (2.5Y, 4/1) DARK GRAY CLAYEY SILT, SMALL GRAVELS, SMALL SAND LENSES, LOW PLASTICITY, MOIST					ML	3.5	PID=0 ppm $\alpha=0$ ppm $BI=40-60$ cpm					
40.5 42.0	111366 04/08/93 15:15	9 17 23	16	SAA					ML	3.0	PID=0 ppm $\alpha=0$ ppm $BI=40-60$ cpm					
42.0 43.5	111367 04/08/93 15:30	16 50	14	0-7" SAA, 7"-14" VERY DENSE (10YR, 5/6) YELLOWISH BROWN, VERY FINE SAND, MOIST					ML SM	3.0	PID=0 ppm $\alpha=0$ ppm $BI=40-60$ cpm					
43.5 45.0	111368 04/08/93 15:40	24 29 50	16	SAA					SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=40-60$ cpm					
50.0 51.5	111369 04/12/93 09:10	50/4"	4	VERY DENSE, (10YR, 5/6) YELLOWISH BROWN, MEDIUM TO FINE SILTY SAND, SOME GRAVELS, MOIST					SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=20-40$ cpm					
51.5 55.0	04/12/93 00:00	N/A	N/A	DESTRUCTIVE DRILLING					N/A	N/A						
55.0 56.5	111370 04/12/93 09:35	50/4"	4	SAA					SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=20-40$ cpm					
56.5 60.0	04/12/93 00:00	N/A	N/A	DESTRUCTIVE DRILLING					N/A	N/A						
60.0 61.5	111371 04/12/93 14:50	24 40 31	12	SAA					SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=20-40$ cpm					
61.5 63.0	111372 04/12/93 15:10	9 24 36	14	SAA					SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=20-40$ cpm					
63.0 64.5	111373 04/12/93 16:00	50/4"	4	SAA					SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=20-40$ cpm					
64.5 66.0	111374 04/12/93 16:25	50/4"	4	SAA					SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=20-40$ cpm					
66.0 67.5	111375 04/12/93 16:45	50/4"	4	SAA					SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=20-40$ cpm					
NOTES: CEMENT PLACED FROM 0.0 TO 1.0 TO HOLD PROTECTIVE PIPE IN PLACE										Driller: CRAIG COULTER Drilling Equipment: 72 SPEED STAR						
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable																

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2947				COORDINATES: NORTH 482120.02 EAST 1379906.75					
GROUND ELEVATION: 589.8				GWL: Depth 72.1 Date/Time 13-Apr-93 13:20					
ENGINEER/GEOLOGIST: P MCCARREN				Depth 68.1 Date/Time 18-Apr-93 14:20					
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E	D T M E E	B L O W S O N	R E C O V E R Y	I N C H E S	S U Y S M C B S O L	T S F	REMARKS	
67.5 69.0	111376 04/12/93 17:10	21 42 50	21 42 50	10	VERY DENSE (10YR, 5/6) YELLOWISH BROWN, MEDIUM TO FINE SILTY SAND, SOME SMALL GRAVELS, MOIST, 6"-10"		SM SW	N/A	PID=0 ppm α =0 ppm BI=20-40 cpm
69.0 70.5	111377 04/13/93 09:10	29 41 50	29 41 50	12	VERY DENSE, (10YR, 4/1) DARK GRAY, WELL GRADED COARSE, MEDIUM AND FINE SAND, SOME SILT, WET AND SMALL GRAVELS		SW	N/A	PID=0 ppm α =0 ppm BI=20-40 cpm
70.5 72.0	111378 04/13/93 09:40	12 25 34	12 25 34	14	SAA		SW	N/A	PID=0 ppm α =0 ppm BI=20-40 cpm
72.0 73.5	111379 04/13/93 10:20	50/4"	50/4"	4	VERY DENSE, (10YR, 4/1) DARK GRAY WELL GRADED COARSE MEDIUM AND FINE SAND, 15% SMALL GRAVELS, WET		SW	N/A	PID=0 ppm α =0 ppm BI=20-40 cpm
73.5 75.0	111380 04/13/93 10:45	12 24 50	12 24 50	18	SAA		SW	N/A	PID=0 ppm α =0 ppm BI=20-40 cpm
75.0 76.5	111381 04/13/93 10:55	2 5 15	2 5 15	8	SAA		SW	N/A	PID=0 ppm α =0 ppm BI=20-40 cpm
76.5 78.0	111382 04/13/93 11:10	8 27 50	8 27 50	10	SAA		SW	N/A	PID=0 ppm α =0 ppm BI=20-40 cpm
78.0 85.0	04/13/93 11:10	N/A	N/A	DESTRUCTIVE DRILLING FROM 78' TO 85'		N/A	N/A		
85.0 85.0	04/13/93 11:10	N/A	N/A	BOTTOM OF BORING 85.0 FT		N/A	N/A		
NOTES: CEMENT PLACED FROM 0.0 TO 1.0 TO HOLD PROTECTIVE PIPE IN PLACE					Driller: CRAIG COULTER Drilling Equipment: 72 SPEED STAR				
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2949					COORDINATES: NORTH 482338.10 EAST 1379718.25			DATE: 25-MAR-93		
GROUND ELEVATION: 583.8					GWL: Depth	Date/Time		DATE STARTED: 25-MAR-93		
ENGINEER/GEOLOGIST: K PAYNE					Depth	Date/Time		DATE COMPLETE: 07-APR-93		
DRILLING METHOD: CABLE TOOL										
DEPTH	S A M P L E	D T M A E	B L O W S L E E O N	R E C O V E R S P L E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS	
1.5	111189 03/26/93 08:40	1 2 4	18	VERY STIFF 910YR, 6/4) LIGHT YELLOWISH BROWN, SILTY CLAY, LOW PLASTICITY, MOIST, MOTTLING				CL	2.5	PID=0 ppm BI=40-60 cpm
1.5 3.0	111190 03/26/93 08:45	2 3 5	5	SAA				CL	2.5	PID=0 ppm BI=40-60 cpm
3.0 4.0	111191 03/26/93 08:50	6 8	12	STIFF (10YR, 6/2) LIGHT BROWNISH GRAY, LOW PLASTICITY, MOIST				CL	1.5	PID=0 ppm BI=60-80 cpm
4.0 6.0	111192 03/26/93 09:30	6 15 20 25	24	VERY STIFF (10YR, 6/8) BROWNISH YELLOW, SILTY CLAY, NON-PLASTIC, SLIGHTLY MOIST				CL	3	PID=0 ppm BI=80-100 cpm
6.0 7.5	111200 03/26/93 10:30	8 10 13	16	MEDIUM DENSE (10YR, 6/4) LIGHT YELLOWISH BROWN, CLAYEY SILT, NON-PLASTIC, SLIGHTLY MOIST				ML	N/A	PID=0 ppm BI=60-80 cpm
7.5 9.0	111201 03/26/93 10:40	6 12 14	15	MEDIUM DENSE (10YR, 6/4) LIGHT YELLOWISH BROWN, CLAYEY SILT WITH TRACE GRAVEL, NON-PLASTIC, SLIGHTLY MOIST				ML	N/A	PID=0 ppm BI=60-80 cpm
9.0 10.5	111202 03/26/93 15:30	7 11 17	14	MEDIUM DENSE (10YR, 5/3) BROWN, CLAYEY SILT WITH TRACE GRAVEL, NON-PLASTIC, SLIGHTLY MOIST				ML	N/A	PID=0 ppm BI=60-80 cpm
10.5 12.0	111203 03/26/93 15:45	3 6 9	12	MEDIUM DENSE (2.5Y, N6/) GRAY, CLAYEY SILT WITH TRACE GRAVEL, SLIGHTLY PLASTIC, SLIGHTLY MOIST				ML	N/A	PID=0 ppm BI=60-80 cpm
12.0 13.5	111204 03/26/93 16:00	2 3 6	11	LOOSE (2.5Y, N6/) GRAY, CLAYEY SILT, LOW PLASTICITY, MOIST				ML	N/A	PID=0 ppm BI=60-80 cpm
13.5 14.0	03/26/93 16:10	3	N/A	NO RECOVERY				N/A	N/A	
14.0 16.0	111206 111207 03/26/93 16:20	3 5 7 13	22	MEDIUM DENSE (2.5Y, N6/) GRAY, CLAYEY SILT, LOW PLASTICITY, MOIST				ML	N/A	PID=0 ppm BI=60-80 cpm
16.0 17.5	111215 03/29/93 08:45	5 3 4	12	LOOSE (5Y, 5/3) OLIVE CLAYEY SILT, TRACE GRAVEL, SLIGHTLY PLASTIC, MOIST				ML	N/A	PID=0 ppm BI=60-80 cpm
<p>NOTES: CEMENT WAS PLACED FROM 0 TO .7 FT TO HOLD THE PROTECTIVE COVER IN PLACE BACKGROUND: HNU=0 PPM, BETA/GAMMA = 40-60 CPM. USED 2" DIAMETER SPLIT SPOON SAMPLER EXCEPT FROM 4'-6" AND 14'-16' WHERE 3" USED.</p> <p>Boring Contractor: PENNSYLVANIA DRILLING CO. SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2949					COORDINATES: NORTH 482338.10 EAST 1379718.25			DATE: 25-MAR-93		
GROUND ELEVATION: 583.8					GWL: Depth	Date/Time		DATE STARTED: 25-MAR-93		
ENGINEER/GEOLOGIST: K PAYNE					Depth	Date/Time		DATE COMPLETE: 07-APR-93		
DRILLING METHOD: CABLE TOOL										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	R E C O P L E	I N C H E R Y		S U S M C B S O L	T S F	REMARKS	
17.5 19.0	111216 03/29/93 09:05	2 5 8	2 5 8	15	MEDIUM DENSE (5Y, 4/3) OLIVE, CLAYEY SILT, TRACE GRAVEL, SLIGHTLY PLASTIC, MOIST			ML	N/A	PID=0 ppm BI=40-60 cpm
19.0 20.5	111217 03/29/93 09:35	2 4/4" 6	2 4/4" 6	10	LOOSE (5Y, 5/1) GRAY, CLAYEY SILT, SLIGHTLY PLASTIC, MOIST			ML	N/A	PID=0 ppm BI=60-80 cpm
20.5 22.0	111218 03/29/93 09:55	2 4 6	2 4 6	12	LOOSE (5Y, 5/2) OLIVE GRAY, CLAYEY SILT, SLIGHTLY PLASTIC, MOIST			ML	N/A	PID=0 ppm BI=60-80 cpm
22.0 23.5	111219 03/29/93 10:15	6 6 4	6 6 4	16	LOOSE (5Y, 5/2) OLIVE GRAY, CLAYEY SILT, SLIGHTLY PLASTIC, MOIST			ML	N/A	PID=0 ppm BI=60-80 cpm
23.5 25.0	111220 03/29/93 10:25	25 24 26	25 24 26	5	VERY STIFF (5Y, 4/1) DARK GRAY, SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	2	PID=0 ppm BI=60-80 cpm
25.0 26.5	111221 03/29/93 10:40	18 22 25	18 22 25	6	DENSE (5Y, 4/1) DARK GRAY, CLAYEY SILT, SLIGHT PLASTICITY, MOIST			ML	N/A	PID=0 ppm BI=60-80 cpm
26.5 28.0	03/29/93 11:00	18 19 26	18 19 26	0	NO RECOVERY			N/A	N/A	
28.0 29.5	111222 03/29/93 11:20	16 18 22	16 18 22	14	DENSE (5Y, 4/1) DARK GRAY, CLAYEY SILT WITH TRACE GRAVEL, SLIGHT PLASTICITY, MOIST			ML	N/A	PID=0 ppm BI=60-80 cpm
29.5 31.0	111223 03/29/93 13:40	6 12 18	6 12 18	13	MEDIUM DENSE (5Y, 5/1) GRAY, CLAYEY SILT TRACE GRAVEL, SLIGHTLY PLASTIC, MOIST			ML	N/A	PID=0 ppm BI=40-60 cpm
31.0 32.5	111224 03/29/93 13:55	4 10 13	4 10 13	11	MEDIUM DENSE (5Y, 5/1) GRAY, CLAYEY SILT, TRACE GRAVEL, SLIGHTLY PLASTIC, MOIST			ML	N/A	PID=0 ppm BI=60-80 cpm
32.5 34.0	111225 03/29/93 14:05	8 12 16	8 12 16	14	MEDIUM DENSE (5Y, 5/1) GRAY, CLAYEY SILT, TRACE GRAVEL, SLIGHTLY PLASTIC, MOIST			ML	N/A	PID=0 ppm BI=40-60 cpm
34.0 35.5	111226 03/29/93 14:15	5 10 21	5 10 21	15	DENSE (5Y, 5/1) GRAY, CLAYEY SILT, SLIGHTLY PLASTIC, MOIST			ML	N/A	PID=0 ppm BI=80-100 cpm
35.5 37.0	111227 03/29/93 14:30	9 9 13	9 9 13	7	MEDIUM DENSE (5Y, 5/1) GRAY, CLAYEY SILT, SLIGHTLY PLASTIC, MOIST			ML	N/A	PID=0 ppm BI=60-80 cpm
NOTES: CEMENT WAS PLACED FROM 0 TO .7 FT TO HOLD THE PROTECTIVE COVER IN PLACE BACKGROUND: HNU=0 PPM, BETA/GAMMA = 40-60 CPM. USED 2" DIAMETER SPLIT SPOON SAMPLER EXCEPT FROM 4'-6' AND 14'-16' WHERE 3" USED.					Boring Contractor: PENNSYLVANIA DRILLING CO. SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable					

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FEMP-OU02-4 DRAFT
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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2949					COORDINATES: NORTH 482338.10 EAST 1379718.25			DATE: 25-MAR-93	
GROUND ELEVATION: 583.8					GWL: Depth	Date/Time		DATE STARTED: 25-MAR-93	
ENGINEER/GEOLOGIST: K PAYNE					Depth	Date/Time		DATE COMPLETE: 07-APR-93	
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E	D A T E E N O N	T I M E E V E R Y	B L O W S W S L	R E C O V P O R E	I N C H E R Y	S U S M C B S O L	T S F	REMARKS
37.0 38.5	111228 03/29/93 14:50	8 10 12	12	MEDIUM DENSE (5Y, 5/1) GRAY, CLAYEY SILT, SLIGHTLY PLASTIC, MOIST		ML	N/A	PID=0 ppm B Γ =40-60 cpm	
38.5 40.0	111229 03/29/93 15:00	8 9 18	10	MEDIUM DENSE (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED FINE SAND, DRY		SP	N/A	PID=0 ppm B Γ =80-100 cpm	
40.0 41.5	111230 03/29/93 15:50	6 8 9	12	MEDIUM DENSE (2.5Y, 5/6) LIGHT OLIVE BROWN, POORLY GRADED FINE SAND, DRY		SP	N/A	PID=0 ppm B Γ =60-80 cpm	
41.5 43.0	111231 03/29/93 16:10	8 16 15	16	DENSE (2.5Y, 5/6) LIGHT OLIVE BROWN, SANDY SILT, NON-PLASTIC, MOIST WITH 6" (2.5Y, N5/) GRAY CLAYEY SILT, SLIGHTLY PLASTIC, MOIST		ML	N/A	PID=0 ppm B Γ =60-80 cpm	
43.0 44.5	111232 03/29/93 16:20	3 3 19	10	MEDIUM DENSE (2.5Y, N5/) GRAY SILT, NON-PLASTIC, MOIST		ML	N/A	PID=0 ppm B Γ =60-80 cpm	
44.5 46.0	111233 03/29/93 16:35	20 33 45	8	VERY DENSE (2.5Y, 6/4) LIGHT YELLOWISH BROWN, POORLY GRADED FINE SAND WITH TRACE GRAVEL, DRY		SP	N/A	PID=0 ppm B Γ =80-100 cpm	
46.0 50.0	03/29/93 00:00	N/A	N/A	DESTRUCTIVE DRILLING		N/A	N/A		
50.0 51.5	111234 03/29/93 17:05	14 17 32	7	DENSE (2.5Y, 6/4) LIGHT YELLOWISH BROWN, POORLY GRADED FINE SAND, DRY		SP	N/A	PID=0 ppm B Γ =60-80 cpm	
51.5 55.0	03/30/93 00:00	N/A	N/A	DESTRUCTIVE DRILLING		N/A	N/A		
55.0 56.5	111235 03/30/93 08:40	35 45 50/3"	7	VERY DENSE (2.5Y, 5/6) LIGHT OLIVE BROWN, POORLY GRADED FINE SAND, DRY		SP	N/A	PID=0 ppm B Γ =40-60 cpm	
56.5 60.0	03/03/93 00:00	N/A	N/A	DESTRUCTIVE DRILLING		N/A	N/A		
60.0 61.5	111236 03/30/93 10:00	25 37 50	9	VERY DENSE (10YR, 5/2) GRAYISH BROWN, POORLY GRADED FINE SAND WITH TRACE GRAVEL, DRY		SP	N/A	PID=0 ppm B Γ =60-80 cpm	
61.5 63.0	111237 03/30/93 10:20	20 30 34	8	VERY DENSE (2.5Y, R, 5/3) LIGHT OLIVE BROWN, WELL GRADED SAND WITH TRACE GRAVEL, DRY		SW	N/A	PID=0 ppm B Γ =60-80 cpm	
NOTES: CEMENT WAS PLACED FROM 0 TO .7 FT TO HOLD THE PROTECTIVE COVER IN PLACE. BACKGROUND: HNU=0 PPM, BETA/GAMMA = 40-60 CPM. USED 2" DIAMETER SPLIT SPOON SAMPLER EXCEPT FROM 4'-6" AND 14'-16' WHERE 3" USED.									
Boring Contractor: PENNSYLVANIA DRILLING CO. SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2949				COORDINATES: NORTH 482338.10 EAST 1379718.25					
GROUND ELEVATION: 583.8				GWL: Depth	Date/Time		DATE STARTED: 25-MAR-93		
ENGINEER/GEOLOGIST: K PAYNE				Depth	Date/Time		DATE COMPLETE: 07-APR-93		
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E	D A T E E E	T M E E	B L O W N E	R A C S P L E R Y	E I N C H E E S	S U S C B S O L	T S F	REMARKS
63.0	111238	30	30	30	16	VERY DENSE (2.5Y, 4/2) DARK GRAYISH BROWN, POORLY GRADED FINE SAND, WET	SP	N/A	PID=0 ppm BI=80-100 cpm
64.5	03/30/93 13:45	24	24	33					
64.5	111239	9	9	16	15	DENSE (2.5Y, 5/2) GRAYISH BROWN, WELL GRADED SAND, WET	SW	N/A	PID=0 ppm BI=60-80 cpm
66.0	03/30/93 14:00	16	16	16					
66.0	111240	19	19	39	17	VERY DENSE (2.5Y, 4/2) DARK GRAYISH BROWN, POORLY GRADED FINE SAND, WET	SP	N/A	PID=0 ppm BI=80-100 cpm
67.5	03/30/93 14:40	39	39	50	16	VERY DENSE (2.5Y, 4/2) DARK GRAYISH BROWN, POORLY GRADED FINE SAND WITH TRACE GRAVEL, WET	SP	N/A	PID=0 ppm BI=60-80 cpm
67.5	111241	36	36	50	16				
69.0	03/30/93 15:00	50	50	36					
69.0	111242	10	10	18	18	DENSE (2.5Y, 4/2) DARK GRAYISH BROWN, POORLY GRADED FINE SAND, WET	SP	N/A	PID=0 ppm BI=60-80 cpm
70.5	03/30/93 15:20	18	18	26	18				
70.5	111243	10	10	16	16	DENSE (2.5Y, 4/2) DARK GRAYISH BROWN, POORLY GRADED FINE SAND, WET	SP	N/A	PID=0 ppm BI=60-80 cpm
72.0	03/30/93 15:50	16	16	18	16				
72.0	111244	65	65	83	10	VERY DENSE (5Y, 4/3) OLIVE, WELL GRADED SAND, WET	SW	N/A	PID=0 ppm BI=80-100 cpm
73.5	03/30/93 16:15	83	83						
73.5	111245	18	18	24	17	VERY DENSE (5Y, 4/3) OLIVE, POORLY GRADED FINE SAND, WET	SP	N/A	PID=0 ppm BI=80-100 cpm
75.0	03/30/93 16:40	24	24	26					
79.0	03/30/93 00:00	N/A	N/A	N/A		BOTTOM OF BORING AT 79 FEET	N/A	N/A	

NOTES:

CEMENT WAS PLACED FROM 0 TO .7 FT TO HOLD THE
PROTECTIVE COVER IN PLACE
BACKGROUND: HNU=0 PPM, BETA/GAMMA = 40-60 CPM.
USED 2" DIAMETER SPLIT SPOON SAMPLER EXCEPT FROM 4'-6'
AND 14'-16' WHERE 3" USED.

Boring Contractor: PENNSYLVANIA DRILLING CO.

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

PBC

5173

02/02/94 13:57

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING-NUMBER: 2951					COORDINATES: NORTH 482158.80 EAST 1379554.77				
GROUND ELEVATION: 581.63					GWL: Depth 61.7 Date/Time 23-Apr-93 10:20				
ENGINEER/GEOLOGIST: K PAYNE					Depth	Date/Time			DATE COMPLETE: 23-APR-93
DRILLING METHOD: CABLE TOOL									
DEPTH	SAMPLE E	SAMPLE TIME	BLOWS ON	RECOVERY %	INCHES		S	T	REMARKS
							SYMBOL	TSF	
1.5	111389 04/13/93 09:30	146	12		STIFF, (2.5Y4/3) OLIVE BROWN SILTY CLAY WITH MOTTLING, NON-PLASTIC, SLIGHTLY MOIST		CL	1.5	PID=0 ppm $\alpha=0$ ppm $BG=100$ cpm
1.5 3.0	111390 04/13/93 09:33	6102	12		VERY STIFF, (2.5Y5/6) LIGHT OLIVE BROWN SILTY CLAY WITH TRACE GRAVEL, NON-PLASTIC, SLIGHLTLY MOIST		CL	4	PID=0 ppm $\alpha=0$ ppm $BG=100$ cpm
3.0 4.5	111391 04/13/93 09:40	62125	14		HARD, (2.5Y5/6) LIGHT OLIVE BROWN, SILTY CLAY WITH TRACE GRAVEL, NON-PLASTIC, SLIGHTLY MOIST		CL	4.5	PID=0 ppm $\alpha=0$ ppm $BG=60$ cpm
4.5 6.0	111392 04/13/93 09:45	303330	15		VERY DENSE, (2.5Y6/2) LIGHT BROWNISH GRAY, CLAYEY SILT WITH TRACE GRAVEL, NON-PLASTIC, SLIGHTLY MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $BG=100$ cpm
6.0 7.5	111393 04/13/93 09:55	212731	16		VERY DENSE, (2.5Y5/3) LIGHT OLIVE BROWN, CLAYEY SILT WITH TRACE GRAVEL, SLIGHTLY PLASTIC, MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $BG=100$ cpm
7.5 9.0	111394 04/13/93 10:05	343730	17		VERY DENSE, (2.5Y5/3) LIGHT OLIVE BROWN, CLAYEY SILT WITH TRACE GRAVEL, NON-PLASTIC, SLIGHTLY MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $BG=70$ cpm
9.0 10.5	111395 04/13/93 15:00	91823	6		DENSE, (10YR,6/6) BROWNISH YELLOW, CLAYEY SILT, MOTTLING, NON-PLASTIC, SLIGHTLY MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $BG=80$ cpm
10.5 12.0	111396 04/13/93 15:20	101515	14		MEDIUM DENSE, (2.5Y, 6/3) LIGHT YELLOWSIH BROWN, CLAYEY SILT, NON-PLASTIC, SLIGHTLY MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $BG=80$ cpm
12.0 13.5	111397 04/13/93 15:35	458	7		MEDIUM DENSE, (2.5Y, 4/2) DARK GRAYISH BROWN, CLAYEY SILT, SLLIGLHT PLASTICITY, MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $BG=60$ cpm
13.5 15.0	111398 04/13/93 15:50	147	6		MEDIUM DENSE, (2.5Y, N4/) DARK GRAY, CLAYEY SILT, LOW PLASTICITY,MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $BG=80$ cpm
15.0 16.5	111399 04/13/93 16:10	248	5		MEDIUM DENSE, (5Y5/2) OLIVE GRAY, CLAYEY SILT, LOW PLASTICITY, MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $BG=60$ cpm
16.5 18.0	111400 04/13/93 16:30	148	7		SAA		ML	N/A	PID=0 ppm $\alpha=0$ ppm $BG=60$ cpm
18.0 19.5	111401 04/13/93 16:40	248	6		MEDIUM DENSE, (5Y5/2) OLIVE GRAY, CLAYEY SILT WITH TRACE GRAVEL, LOW PLASTICITY, MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $BG=60$ cpm

NOTES:

CEMENT PLACED 0.09 TO .8 FT TO HOLD THE PROTECTIVE COVER. BACKGROUND 4/12/93 PID=OPPM, BG=80CPM, ALPHA=OPCM; 4/13/93 PID=0ppm, BG=80cpm 4/15/93 PID=OPPM, BG=60CPM, ALPHA=OPCM; 4/16/93 PID=OPPM, BG=40-60CPM, ALPHA=OPCM 4/17/93 PID=2-3PPM, BG=60CPM, ALPHA=OPCM

Boring Contractor: PENNSYLVANIA DRILLING
Driller: BOB JOHNSON, LONNIE MCGLOKLIN
Drilling Equipment: CYCLONE 42

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

02/02/94 13:57

PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION													
BORING NUMBER: 2951				COORDINATES: NORTH 482158.80 EAST 1379554.77				DATE: 13-APR-93									
GROUND ELEVATION: 581.63				GWL: Depth 61.7 Date/Time 23-Apr-93 10:20				DATE STARTED: 12-APR-93									
ENGINEER/GEOLOGIST: K PAYNE				Depth Date/Time				DATE COMPLETE: 23-APR-93									
DRILLING METHOD: CABLE TOOL																	
D E P T H	S A M P L E	A D T M E E	D R I V E S O N	B L O W S L E E	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS							
19.5 21.0	111402 04/15/93 08:50	25 27 8	14	DENSE, (5Y5/1) GRAY SILTY SAND WITH TRACE GRAVEL, NON-PLASTIC, MOIST				SM	N/A	PID=0 ppm α =0 ppm BT=120 cpm							
21.0 22.5	111403 04/15/93 09:10	8 16 45	6	VERY DENSE, (5Y4/2) OLIVE GRAY SILTY SAND, NON-PLASTIC, MOIST				SM	N/A	PID=0 ppm α =0 ppm BT=60 cpm							
22.5 24.0	111404 04/15/93 09:25	31 21 35	8	VERY DENSE, (5Y5/2) OLIVE GRAY SILTY SAND WITH TRACE GRAVEL, NON-PLASTIC, MOIST				SM	N/A	PID=0 ppm α =0 ppm BT=60 cpm							
24.0 25.5	111405 04/15/93 09:45	11 25 31	5	VERY DENSE, (5Y5/2) OLIVE GRAY SILTY SAND WITH TRACE GRAVEL, NON-PLASTIC, MOIST				SM	N/A	PID=0 ppm α =0 ppm BT=60 cpm							
25.5 27.0	111406 04/15/93 10:05	12 19 50/3"	9	VERY DENSE, (5Y5/1) GRAY CLAYEY SILT, NON-PLASTIC, MOIST				ML	N/A	PID=0 ppm α =0 ppm BT=60 cpm							
27.0 28.5	111407 04/15/93 10:30	10 12 14	13	MEDIUM DENSE, (5Y5/1) GRAY CLAYEY SILT WITH TRACE ORGANICS AND GRAVEL, SLIGHT PLASTICITY, MOIST				ML	N/A	PID=0 ppm α =0 ppm BT=60 cpm							
28.5 30.0	111408 04/15/93 10:40	11 11 17	12	MEDIUM DENSE, (5Y5/1) GRAY CLAYEY SILT, SLIGHT PLASTICITY, MOIST				ML	N/A	PID=0 ppm α =0 ppm BT=80 cpm							
30.0 31.5	111409 04/15/93 13:50	10 11 15	14	MEDIUM DENSE, (5Y4/1) DARK GRAY CLAYEY SILT, NON-PLASTIC MOIST				ML	N/A	PID=0 ppm α =0 ppm BT=100 cpm							
31.5 33.0	111410 04/15/93 14:05	5 6 15	8	MEDIUM DENSE, (5Y4/1) DARK GRAY SILTY SAND, NON-PLASTIC, MOIST				SM	N/A	PID=0 ppm α =0 ppm BT=60 cpm							
33.0 34.5	111411 04/15/93 09:10	12 30 25	18	HARD, (5Y4/1) DARK GRAY, SILTY GRAVELLY, MEDIUM PLASTICITY CLAY, MOIST				CL	4.5	PID=0 ppm α =0 ppm BT=60 cpm							
34.5 36.0	111412 04/16/93 09:30	17 21 30	13	VERY DENSE, (2.5Y4/4) OLIVE BROWN, WELL GRADED, PEBBLY SAND, DRY				SW	N/A	PID=0 ppm α =0 ppm BT=60 cpm							
36.0 37.5	111413 04/16/93 09:40	22 28 25	11	VERY DENSE, (2.5Y6/3) LIGHT YELLOWISH BROWN, WELL GRADED SAND, DRY				SW	N/A	PID=0 ppm α =0 ppm BT=60 cpm							
37.5 39.0	111414 04/16/93 09:55	16 15 21	9	DENSE, (10YR6/3) PALE BROWN, WELL GRADED SAND, DRY				SW	N/A	PID=0 ppm α =0 ppm BT=60 cpm							
NOTES: CEMENT PLACED 0.09 TO .8 FT TO HOLD THE PROTECTIVE COVER. BACKGROUND 4/12/93 PID=0PPM,BG=80CPM,ALPHA=0CPM; 4/13/93 PID=0ppm,BG=80cpm 4/15/93 PID=0PPM,BG=60CPM,ALPHA=0CPM; 4/16/93 PID=0PPM,BG=60CPM,ALPHA=0CPM 4/17/93 PID=2-3PPM, BG=60CPM, ALPHA=0CPM																	
Boring Contractor: PENNSYLVANIA DRILLING Driller: BOB JOHNSON, LONNIE MCGLOKLIN Drilling Equipment: CYCLONE 42 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable																	

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FEMP-OU02-4 DRAFT

February 18, 1994

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI-PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2951					COORDINATES: NORTH 482158.80 EAST 1379554.77 DATE: 13-APR-93				
GROUND ELEVATION: 581.63					GWL: Depth 61.7 Date/Time 23-Apr-93 10:20 DATE STARTED: 12-APR-93				
ENGINEER/GEOLOGIST: K PAYNE					Depth	Date/Time	DATE COMPLETE: 23-APR-93		
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E	D A T E E E	B L O W S P E N	R A C O V E R Y	I N C H E E S		S Y U S M C B S O L	T S F	REMARKS
39.0 40.0	04/16/93 00:00	N/A	N/A	NO SAMPLE TAKEN			N/A	N/A	
40.0 41.5	111415 04/16/93 10:45	9 9 9	10	VERY SOFT, (2.5Y5/2) GRAYISH BROWN SILTY SAND, MEDIUM PLASTICITY CLAY, WET			CL	.25	PID=0 ppm $\alpha=0$ ppm BG=60 cpm
41.5 43.0	111416 04/16/93 13:30	27 50/4"	10	VERY DENSE, (2.5Y6/3) LIGHT YELLOWISH BROWN, WELL GRADED PEBBLY SAND, DRY			SW	N/A	PID=0 ppm $\alpha=0$ ppm BG=60 cpm
43.0 45.0	04/16/93 00:00	N/A	N/A	NO SAMPLES TAKEN			N/A	N/A	
45.0 46.5	111417 04/16/93 13:50	7 21 45	7	VERY DENSE, (10YR 6/2) LIGHT BROWNISH GRAY, WELL GRADED, GRAVELLY SAND, DRY			SW	N/A	PID=0 ppm $\alpha=0$ ppm BG=60 cpm
46.5 50.0	04/16/93 00:00	N/A	N/A	NO SAMPLE COLLECTED			N/A	N/A	
50.0 51.5	111418 04/16/93 14:40	11 10 21	10	DENSE, (10YR, 4/2) DARK GRAYISH BROWN, WELL GRADED, SILTY, CLAYEY SAND, WET			SC	N/A	PID=0 ppm $\alpha=0$ ppm BG=60 cpm
51.5 55.0	04/16/93 00:00	N/A	N/A	NO SAMPLE COLLECTED			N/A	N/A	
55.0 56.5	111419 04/16/93 15:00	21 19 50	10	VERY DENSE, (2.5Y, 6/2) LIGHT GRAYISH BROWN, POORLY GRADED, GRAVELLY SAND, DRY			SP	N/A	PID=0 ppm $\alpha=0$ ppm BG=60 cpm
56.5 58.0	04/16/93 00:00	N/A	N/A	NO SAMPLE COLLECTED			N/A	N/A	
58.0 59.5	111420 04/17/93 09:10	18 29 30	8	VERY DENSE, (2.5Y, 6/2) LIGHT BROWNISH GRAY, POORLY GRADED, GRAVELLY SAND, DRY			SP	N/A	PID=5.2 ppm $\alpha=0$ ppm BG=60 cpm
59.5 61.0	111421 04/17/93 09:30	4 9 10	9	MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, WELL GRADED, GRAVELLY SAND, WET			SW	N/A	PID=6.6 ppm $\alpha=0$ ppm BG=60 cpm
61.0 62.5	111422 04/17/93 09:45	9 10 12	16	MEDIUM DENSE, (2.5Y, 4/2) DARK GRAYISH BROWN, WELL GRADED, GRAVELLY SAND, WET			SW	N/A	PID=8 ppm $\alpha=0$ ppm BG=60 cpm
NOTES: CEMENT PLACED 0.09 TO .8 FT TO HOLD THE PROTECTIVE COVER. BACKGROUND 4/12/93 PID=OPPM, BG=80CPM, ALPHA=OPCM; 4/13/93 PID=0ppm, BG=80cpm 4/15/93 PID=OPPM, BG=60CPM, ALPHA=OPCM; 4/16/93 PID=OPPM, BG=60-60CPM, ALPHA=OPCM 4/17/93 PID=2-3PPM, BG=60CPM, ALPHA=OPCM									
Boring Contractor: PENNSYLVANIA DRILLING Driller: BOB JOHNSON, LONNIE MCGLOKLIN Drilling Equipment: CYCLONE 42 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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February 18, 19945173
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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 2951				COORDINATES: NORTH 482158.80 EAST 1379554.77											
GROUND ELEVATION: 581.63				GWL: Depth 61.7 Date/Time 23-Apr-93 10:20											
ENGINEER/GEOLOGIST: K PAYNE				Depth	Date/Time		DATE COMPLETE: 23-APR-93								
DRILLING METHOD: CABLE TOOL															
D E P T H	S A M P L E	D A T E E N O N	T I M E E E R Y	B L O W M S P L E	R E C O V E R Y	I N C H E S	S Y U S M C B S O L	T S F	REMARKS						
62.5 64.0	111423 04/17/93 10:00	14 13 14	12	MEDIUM DENSE, (5Y, 5/1) GRAY, WELL GRADED SAND WITH SOME GRAVEL, WET					SW	N/A	PID=7 ppm $\alpha=0$ ppm BG=60 cpm				
64.0 65.5	111424 04/17/93 10:30	18 23 16	11	DENSE, (5Y, 5/1) GRAY, WELL GRADED SAND WITH SOME GRAVEL, WET					SW	N/A	PID=4.9 ppm $\alpha=0$ ppm BG=60 cpm				
65.5 67.0	111425 04/17/93 13:15	32 50/3"	10	VERY DENSE, (10YR, 4/1) DARK GRAY, WELL GRADED SAND WITH SOME GRAVEL, WET					SW	N/A	PID=0 ppm $\alpha=0$ ppm BG=60 cpm				
67.0 68.5	111426 04/17/93 13:35	13 15 35	15	DENSE, (10YR, 4/1) DARK GRAY, WELL GRADED SAND WITH SOME GRAVEL, WET					SW	N/A	PID=0 ppm $\alpha=0$ ppm BG=60 cpm				
68.5 70.0	111427 04/17/93 14:00	12 18 18	16	DENSE, (5Y, 4/2) OLIVE GRAY, WELL GRADED, SAND WITH SOME GRAVEL, WET					SW	N/A	PID=0 ppm $\alpha=0$ ppm BG=60 cpm				
70.0 71.5	111428 05/26/93 15:25	10 11 12	15	MEDIUM DENSE (5Y,4/2) OLIVE GRAY, WELL GRADED SAND WITH SOME GRAVEL, WET					SW	N/A	PID=0 ppm BG=40-60 cpm				
71.5 73.0	111429 04/17/93 15:00	50 50/3"	10	VERY DENSE, (5Y4/2) OLIVE GRAY, WELL GRADED SAND WITH SOME GRAVEL, WET					SW	N/A	PID=0 ppm $\alpha=0$ ppm BG=60 cpm				
75.0	04/17/93 00:00	N/A	N/A	BOTTOM OF BORING AT 75.01 FEET					N/A	N/A					
NOTES: CEMENT PLACED 0.09 TO .8 FT TO HOLD THE PROTECTIVE COVER. BACKGROUND 4/12/93 PID=0PPM,BG=80CPM,ALPHA=0CPM; 4/13/93 PID=0ppm,BG=80cpm 4/15/93 PID=0PPM,BG=60CPM,ALPHA=0CPM; 4/16/93 PID=0PPM,BG=60CPM,ALPHA=0CPM 4/17/93 PID=2-3PPM, BG=60CPM, ALPHA=0CPM									Boring Contractor: PENNSYLVANIA DRILLING Driller: BOB JOHNSON, LONNIE MCGLOKLIN Drilling Equipment: CYCLONE 42						
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2953					COORDINATES: NORTH 482020.08 EAST 1379744.25					
GROUND ELEVATION: 586.6					GWL: Depth 66.35 Date/Time 06-Jun-93 09:20					
ENGINEER/GEOLOGIST: KEITH PAYNE					Depth	Date/Time			DATE COMPLETE: 06-JUN-93	
DRILLING METHOD: CABLE TOOL										
D E P T H	S A M P L E	D A T E	B L O W S A M P L E O N	T I M E	R E C O V R Y	I N C H E E S	S Y S U M B C S O L	T S F	REMARKS	
1.5	115418 05/17/93 09:20	3 4 18		7	VERY STIFF, (2.5Y, 4/3) OLIVE BROWN, CLAY WITH TRACE GRAVEL, SLIGHT PLASTICITY, MOIST					CL 3 PID=0 ppm $\alpha=0$ ppm BG=80 cpm
1.5 3.0	115419 05/17/93 09:30	20 14 12		10	HARD, (2.5Y, 4/3) OLIVE BROWN, CLAY WITH TRACE GRAVEL, SLIGHT PLASTICITY, SLIGHTLY MOIST					CL 4.5 PID=0 ppm $\alpha=0$ ppm BG=80 cpm
3.0 4.5	05/17/93 09:32	13 12 13		N/A	NO RECOVERY (2 SPOONS DRIVEN)					N/A N/A
4.5 6.0	05/17/93 09:35	10 10 11		N/A	NO RECOVERY (2 SPOONS DRIVEN)					N/A N/A
6.0 7.5	115420 05/17/93 09:42	8 10 11		6	SOFT, (5Y, 3/2) DARK OLIVE GRAY, CLAY, SLIGHT PLASTICITY, VERY MOIST					CL .5 PID=0 ppm $\alpha=0$ ppm BG=80 cpm
7.5 9.0	115421 05/17/93 09:48	14 14 15		13	STIFF, (2.5Y, 6/6) OLIVE YELLOW, SANDY CLAY, SLIGHT PLASTICITY, SLIGHTLY MOIST					CL 1.5 PID=0 ppm $\alpha=0$ ppm BG=70 cpm
9.0 10.5	115422 05/17/93 16:05	4 7 13		12	SAA					CL 1.5 PID=0 ppm $\alpha=0$ ppm BG=100 cpm
10.5 12.0	115423 05/17/93 16:20	6 11 18		6	STIFF, (2.5Y, 5/6) LIGHT OLIVE BROWN, CLAY, LOW PLASTICITY, MOIST					CL 1.5 PID=0 ppm $\alpha=0$ ppm BG=100 cpm
12.0 13.5	115424 05/17/93 16:35	10 16 23		18	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAY, SLIGHT PLASTICITY, MOIST					CL 3 PID=0 ppm $\alpha=0$ ppm BG=60 cpm
13.5 15.0	115425 05/17/93 16:47	13 24 28		13	VERY STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAY, SLIGHTLY PLASTICITY, MOIST					CL 2.5 PID=0 ppm $\alpha=0$ ppm BG=70 cpm
15.0 16.5	115426 05/19/93 09:15	11 18 24		16	HARD, (2.5Y, 5/2) GRAYISH BROWN, SILTY CLAY, SLIGHT PLASTICITY, MOIST					CL 4.5 PID=0 ppm $\alpha=0$ ppm BG=40 cpm
16.5 18.0	115427 05/19/93 09:30	7 9 14		15	VERY STIFF, (5Y, 4/1) DARK GRAY, SILTY CLAY WITH TRACE GRAVEL, SLIGHT PLASTICITY, MOIST					CL 2.5 PID=0 ppm $\alpha=0$ ppm BG=80 cpm
18.0 19.5	115428 05/19/93 09:40	3 8 9		12	VERY STIFF, (5Y, 4/1) DARK GRAY, SILTY CLAY WITH TRACE SAND, SLIGHT PLASTICITY, MOIST					CL 2.5 PID=0 ppm $\alpha=0$ ppm BG=80 cpm
NOTES: CEMENT PLACED FROM 0 TO 0.8 FT BACKGROUND 5/17/93 PID=ppm; BG=70cpm 5/19/93 PID=0ppm; BG=50cpm 5/20/93 PID=0ppm; BG=50cpm 5/20/93 PID=0ppm; BG=50cpm 5/24/93 PID=0ppm; BG=50cpm 5/27/93 PID=0ppm; BG=60cpm 6/1/93 PID=0ppm; BG=60cpm 6/6/93 PID=0ppm; BG=60cpm										Boring Contractor: PENNSYLVANIA DRILLING Driller: BOB JOHNSON, JOHN VANDINE Drilling Equipment: CYCLONE 42 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

February 18, 1994

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 2953					COORDINATES: NORTH 482020.08 EAST 1379744.25							
GROUND ELEVATION: 586.6					GWL: Depth 66.35	Date/Time 06-Jun-93 09:20	DATE STARTED: 17-MAY-93					
ENGINEER/GEOLOGIST: KEITH PAYNE					Depth	Date/Time	DATE COMPLETE: 06-JUN-93					
DRILLING METHOD: CABLE TOOL												
D E P T H	S A M P L E	D A T E E E	B L O W S L E N O N	R E C O V E R Y	I N C H E R E S	S U S M C B S O L	T S F	REMARKS				
19.5 21.0	05/19/93 13:30	5 8 10	N/A	NO RECOVERY (2 SPOONS DRIVEN)			N/A	N/A				
21.0 22.5	115429 05/19/93 13:50	3 5 9	10	MEDIUM DENSE, (5Y, 4/1) DARK GRAY, CLAYEY SILT, LOW PLASTICITY, MOIST			ML-	N/A	PID=0 ppm $\alpha=0$ ppm BG=80 cpm			
22.5 24.0	115430 05/19/93 14:10	3 9 16	18	MEDIUM DENSE, (5Y, 4/1) DARK GRAY, CLAYEY SILT WITH TRACE GRAVEL, LOW PLASTICITY, MOIST (3 IN SPOON)			ML	N/A	PID=0 ppm $\alpha=0$ ppm BG=80 cpm			
24.0 25.5	115432 05/19/93 14:40	4 7 50	7	VERY DENSE, (5Y, 5/1) GRAY, CLAYEY SILT, LOW PLASTICITY, MOIST			ML	N/A	PID=0 ppm $\alpha=0$ ppm BG=40 cpm			
25.5 27.0	115433 05/19/93 14:50	8 20 14	16	DENSE, (5Y, 4/1) DARK GRAY, GRAVELY SILT, LOW PLASTICITY, MOIST			ML	N/A	PID=0 ppm $\alpha=0$ ppm BG=40 cpm			
27.0 28.5	115434 05/19/93 15:00	5 14 27	12	VERY DENSE, (5Y, 4/1) DARK GRAY, GRAVELY SILT, SLIGHT PLASTICITY, MOIST			ML	N/A	PID=0 ppm $\alpha=0$ ppm BG=40 cpm			
28.5 30.0	115435 05/19/93 15:10	7 11 16	14	MEDIUM DENSE, (5Y, 4/1) DARK GRAY, GRAVELY SILT, SLIGHT PLASTICITY, MOIST			ML	N/A	PID=0 ppm $\alpha=0$ ppm BG=40 cpm			
30.0 31.5	115436 05/20/93 09:50	5 7 13	10	MEDIUM DENSE, (5Y, 4/1) DARK GRAY, CLAYEY SILT WITH TRACE SAND, SLIGHT PLASTICITY, MOIST			ML	N/A	PID=0 ppm $\alpha=0$ ppm BG=80 cpm			
31.5 33.0	115437 05/20/93 10:05	7 9 13	9	SAA			ML	N/A	PID=0 ppm $\alpha=0$ ppm BG=80 cpm			
33.0 34.5	115438 05/20/93 10:25	3 7 13	6	SAA			ML	N/A	PID=0 ppm $\alpha=0$ ppm BG=60 cpm			
34.5 36.0	115439 05/20/93 10:40	10 10 11	12	MEDIUM DENSE, (5Y, 5/1) GRAY CLAYEY SILT WITH TRACE SAND AND GRAVEL, LOW PLASTICITY, MOIST			ML	N/A	PID=0 ppm $\alpha=0$ ppm BG=40 cpm			
36.0 37.5	115440 05/20/93 13:40	7 7 15	18	MEDIUM DENSE, (5Y, 4/1) DARK GRAY, SANDY SILT WITH ORGANICS, SLIGHT PLASTICITY, MOIST			ML	N/A	PID=0 ppm $\alpha=0$ ppm BG=60 cpm			
37.5 39.0	115441 05/20/93 13:56	10 11 15	18	MEDIUM DENSE, (5Y 4/1) DARK GRAY, CLAYEY SILT WITH TRACE GRAVEL, LOW PLASTICITY, MOIST			ML	N/A	PID=0.0 ppm $\alpha=0$ ppm BG=60 cpm			
NOTES: CEMENT PLACED FROM 0 TO 0.8 FT BACKGROUND 5/17/93 PID=ppm; BG=70cpm 5/19/93 PID=0ppm; BG=50cpm 5/20/93 PID=0ppm; BG=50cpm 5/20/93 PID=0ppm; BG=50cpm 5/24/93 PID=0ppm; BG=50cpm 5/27/93 PID=0ppm; BG=60cpm 6/1/93 PID=0ppm; BG=60cpm 6/6/93 PID=0ppm; BG=60cpm												
Boring Contractor: PENNSYLVANIA DRILLING Driller: BOB JOHNSON, JOHN VANDINE Drilling Equipment: CYCLONE 42 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable												

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February 18, 1994

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02/02/94 13:57

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2953					COORDINATES: NORTH 482020.08 EAST 1379744.25			DATE: 17-MAY-93	
GROUND ELEVATION: 586.6					GWL: Depth 66.35 Date/Time 06-Jun-93 09:20			DATE STARTED: 17-MAY-93	
ENGINEER/GEOLOGIST: KEITH PAYNE					Depth	Date/Time		DATE COMPLETE: 06-JUN-93	
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E	D A T E	B L O W S O N	T I M E	R E C O V E R Y	I N C H E S	U S Y S M C B S O L	T S F	REMARKS
39.0 40.5	115442 05/20/93 14:05	8 11 13	14		MEDIUM DENSE, (10YR, 5/4) YELLOWISH BROWN, SANDY SILT WITH TRACE GRAVEL, SLIGHTLY PLASTICITY, SLIGHTLY MOIST		ML	N/A	PID=0 ppm α =0 ppm BT=60 cpm
40.5 42.0	115443 05/20/93 15:22	17 23 38	10		VERY DENSE, (10YR, 5/6) YELLOWISH BROWN, SILTY SAND, DRY		SM	N/A	PID=0 ppm α =0 ppm BT=50 cpm
42.0 45.0	05/20/93 00:00	N/A	N/A		BEGIN 5.0 FT SAMPLING		N/A	N/A	
45.0 46.5	115444 115445 05/20/93 15:50	35 100 100/3	14		VERY DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED, SAND WITH TRACE GRAVEL, DRY (3 IN SPOON)		SP	N/A	PID=0 ppm α =0 ppm BT=50 cpm
46.5 50.0	05/20/93 00:00	N/A	N/A		NO SAMPLE		N/A	N/A	
50.0 51.5	115446 05/24/93 09:15	29 45 50/2"	12		VERY DENSE, (10YR, 5/6) YELLOWISH BROWN, WELL GRADED SAND WITH GRAVEL, DRY		SW	N/A	PID=0 ppm α =0 ppm BT=60 cpm
51.5 55.0	05/24/93 00:00	N/A	N/A		NO SAMPLE		N/A	N/A	
55.0 56.5	115447 05/24/93 10:30	16 16 21	10		DENSE, (10YR, 6/6) BROWNISH YELLOW, WELL GRADED SAND WITH GRAVEL, DRY		SW	N/A	PID=0 ppm α =0 ppm BT=60 cpm
56.5 60.0	05/27/93 00:00	N/A	N/A		NO SAMPLE		N/A	N/A	
60.0 61.5	115448 05/27/93 16:50	27 50/3"	6		VERY DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, WELL GRADED SAND, DRY		SW	N/A	PID=.3 ppm α =0 ppm BT=50 cpm
61.5 63.0	115449 06/01/93 09:45	38 42 50	7		VERY DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, WELL GRADED SAND WITH GRAVEL, MOIST		SW	N/A	PID=0 ppm α =0 ppm BT=80 cpm
63.0 64.5	115450 06/01/93 09:55	38 50	6		VERY DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, WELL GRADED, SAND WITH GRAVEL, MOIST		SW	N/A	PID=0 ppm α =0 ppm BT=70 cpm
64.5 66.0	115451 06/01/93 10:00	8 10 15	6		DENSE, (5Y, 4/2) OLIVE GRAY, POORLY GRADED, FINE SAND TRACE GRAVEL, WET		SP	N/A	PID=0 ppm α =0 ppm BT=80 cpm
NOTES: CEMENT PLACED FROM 0 TO 0.8 FT BACKGROUND 5/17/93 PID=ppm; BG=70cpm 5/19/93 PID=0ppm; BG=50cpm 5/20/93 PID=0ppm; BG=50cpm 5/20/93 PID=0ppm; BG=50cpm 5/24/93 PID=0ppm; BG=50cpm 5/27/93 PID=0ppm; BG=60cpm 6/1/93 PID=0ppm; BG=60cpm 6/6/93 PID=0ppm; BG=60cpm									
Boring Contractor: PENNSYLVANIA DRILLING Driller: BOB JOHNSON, JOHN VANDINE Drilling Equipment: CYCLONE 42 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

February 18, 1994

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02/02/94 13:57

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION											
BORING NUMBER: 2953					COORDINATES: NORTH 482020.08 EAST 1379744.25			DATE: 17-MAY-93								
GROUND ELEVATION: 586.6					GWL: Depth 66.35 Date/Time 06-Jun-93 09:20			DATE STARTED: 17-MAY-93								
ENGINEER/GEOLOGIST: KEITH PAYNE					Depth	Date/Time			DATE COMPLETE: 06-JUN-93							
DRILLING METHOD: CABLE TOOL																
D E P T H	S A M P L E	D A T E E E	B L O W N E	S A M P L E	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS						
66.0	115452 06/01/93 10:10	12 13 17		9	DENSE, (5Y, 4/2) OLIVE GRAY, POORLY GRADED FINE SAND, WET					SP	N/A	PID=0 ppm α =0 ppm BG=80 cpm				
67.5	115453 06/01/93 10:40	17 50		12	VERY DENSE, (5Y, 4/3) OLIVE, POORLY GRADED, FINE SAND, WET					SP	N/A	PID=0 ppm α =0 ppm BG=80 cpm				
69.0	115454 115455 06/01/93 10:50	50		6	VERY DENSE, (5Y, 4/3) OLIVE, POORLY GRADED, FINE SAND, WET (3 IN SPOON)					SP	N/A	PID=0 ppm α =0 ppm BG=80 cpm				
70.5	115456 06/01/93 11:05	8 15 16		15	DENSE, (5Y, 4/2) OLIVE GRAY, WELL GRADED SAND, WET					SW	N/A	PID=0 ppm α =0 ppm BG=80 cpm				
72.0	115457 06/01/93 11:15	10 13 34		16	VERY DENSE, (5Y, 5/3) OLIVE, WELL GRADED SAND TRACE GRAVEL, WET					SW	N/A	PID=0 ppm α =0 ppm BG=70 cpm				
73.5	115458 06/01/93 11:30	9 15 41		12	VERY DENSE, (5Y, 5/3) OLIVE, WELL GRADED SAND WITH GRAVEL, WET					SW	N/A	PID=0 ppm α =0 ppm BG=70 cpm				
75.0	06/19/03 00:00	N/A	N/A		NO SAMPLE					N/A	N/A					
80.0	06/01/93 00:00	N/A	N/A		BOTTOM OF BORING AT 80 FEET					N/A	N/A					
NOTES: CEMENT PLACED FROM 0 TO 0.8 FT BACKGROUND 5/17/93 PID=ppm; BG=70 cpm 5/19/93 PID=0ppm; BG=50 cpm 5/20/93 PID=0ppm; BG=50 cpm 5/20/93 PID=0ppm; BG=50 cpm 5/24/93 PID=0ppm; BG=50 cpm 5/27/93 PID=0ppm; BG=60 cpm 6/1/93 PID=0ppm; BG=60 cpm 6/6/93 PID=0ppm; BG=60 cpm										Boring Contractor: PENNSYLVANIA DRILLING Driller: BOB JOHNSON, JOHN VANDINE Drilling Equipment: CYCLONE 42						
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable																

0601

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02/02/94 13:57

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 3037					COORDINATES: NORTH 482141.43 EAST 1379791.96			DATE: 19-JAN-88			
GROUND ELEVATION: 588.5					GWL: Depth	Date/Time	DATE STARTED: 19-JAN-88				
ENGINEER/GEOLOGIST: W. KEGLEY					Depth	Date/Time	DATE COMPLETE: 03-FEB-88				
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E E	D A T E E E	B L O W S P L E N O N	R E C O V E R Y	I N C H E E S		S Y S M C B S O L	T S F	REMARKS		
1.5	007953 01/19/88 11:03	3 17 19	17	HARD BROWN (10YR, 5/3) CLAY, SOME GRAVEL AND SILT - DRY.			CL	4.5+	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm		
1.5 3.0	007954 01/19/88 11:05	8 8 13	16	STIFF BROWN (10YR, 5/3) SILT, SOME SAND AND CLAY, TRACE GRAVEL - DRY.			ML	2.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm		
3.0 4.5	007955 01/19/88 13:00	12 10 9	10	STIFF LIGHT YELLOWISH BROWN (2.5Y, 6/4) SILT AND SAND, SOME GRAVEL, TRACE CLAY - DRY.			ML	1.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm		
4.5 6.0	007956 01/19/88 13:14	6 6 6	4	VERY SOFT OLIVE BROWN (2.5Y 4/4) CLAY, SOME SAND AND SILT, TRACE GRAVEL - MOIST.			CL	<.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm		
6.0 7.5	007957 01/19/88 13:21	5 5 10	10	VERY SOFT OLIVE BROWN (2.5Y, 4/4) CLAY, SOME SAND AND SILT, TRACE GRAVEL - MOIST. VERY STIFF VERY DARK GREY (2.5, 3/0) CLAY, SOME SILT, DRY.			CL CL	<.25 3.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm		
7.5 9.0	007958 01/20/88 08:50	5 7 10	12	STIFF DARK GREY (5Y, 4/1) CLAY, SOME SILT - DRY.			CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm		
9.0 10.5	007959 01/20/88 09:00	3 5 8	15	STIFF DARK GREY (5Y, 4/1) CLAY, SOME SILT - DRY. VERY STIFF BROWNISH YELLOW (10YR, 6/8) MOTTLED CLAY, SOME SILT - DRY.			CL CL	1.5 2.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm		
10.5 12.0	007960 01/20/88 09:28	4 5 8	17	VERY STIFF YELLOWISH BROWN (10YR, 5/8) MOTTLED CLAY AND SILT - DRY.			CL	2.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm		
12.0 13.5	007961 01/20/88 09:42	5 7 11	16	VERY STIFF YELLOWISH BROWN (10YR, 5/4) CLAY AND SILT, TRACE GRAVEL - DRY.			CL	2.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm		
13.5 15.0	007962 01/20/88 09:58	6 12 15	18	VERY STIFF YELLOWISH BROWN (10YR, 5/4) CLAY AND SILT, TRACE GRAVEL - DRY.			CL	2.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm		
15.0 16.5	007963 01/20/88 10:07	10 16 24	18	VERY STIFF STRONG BROWN (7.5YR, 5/6) SILT AND CLAY, SOME GRAVEL - TRACE SAND, DRY.			ML	3.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm		
16.5 18.0	007964 01/20/88 13:30	21 33 41	6	HARD DARK BROWN (10YR, 5/3) SILT AND CLAY, SOME GRAVEL - DRY.			ML	4.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm		
18.0 19.5	007965 01/20/88 14:26	15 13 23	12	HARD DARK BROWN (10YR, 5/3) SILT AND CLAY, SOME GRAVEL - DRY. VERY STIFF DARK GREY SILT, SOME CLAY AND GRAVEL - DRY.			ML ML	4.25 4.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm		
NOTES:											
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

02/02/94 13:57

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 3037					COORDINATES: NORTH 482141.43 EAST 1379791.96			DATE: 19-JAN-88		
GROUND ELEVATION: 588.5					GWL: Depth	Date/Time		DATE STARTED: 19-JAN-88		
ENGINEER/GEOLOGIST: W. KEGLEY					Depth	Date/Time		DATE COMPLETE: 03-FEB-88		
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	R E C O M P L E	I N C O R E R Y		S U S M C B S O L	T S F	REMARKS	
19.5 21.0	007966 01/20/88 14:38	4 10 14	16	VERY STIFF DARK GREY (5Y, 5/1) CLAY AND SILT, SOME GRAVEL - DRY.				CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
21.0 22.5	007967 01/20/88 15:05	6 10 12	13	VERY STIFF DARK GREY (5Y 4/1) CLAY AND SILT, SOME GRAVEL - DRY.				CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
22.5 24.0	007968 01/20/88 15:27	4 8 14	14	STIFF GREY (5Y, 5/1) CLAY AND SILT, SOME GRAVEL - DRY.				CL	1.25	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
24.0 25.5	007969 01/20/88 15:42	6 8 13	18	STIFF DARK GREY (5Y 4/1) CLAY AND SILT, SOME GRAVEL - DRY.				CL	1.25	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
25.5 27.0	007970 01/20/88 15:51	4 7 12	12	STIFF DARK GREY (5Y, 5/1) CLAY AND SILT, SOME GRAVEL, TRACE SAND - DRY.				CL	1.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
27.0 28.5	007971 01/22/88 09:20	4 5 11	4	VERY SOFT GREY (5Y 5/1) CLAY AND SILT, SOME GRAVEL - DRY.				CL	<.25	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=120$ cpm
30.0 31.5	007973 01/22/88 10:07	14 22 26	12	HARD GREY (5Y, 5/1) CLAY, SOME GRAVEL, TRACE SILT - DRY.				CL	>4.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
31.5 33.0	007974 01/22/88 10:34	20 21 27	15	HARD GREY (5Y, 5/1) CLAY, SOME GRAVEL, TRACE SILT - DRY.				CL	3.75	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
33.0 34.5	007975 01/22/88 10:56	6 13 16	16	VERY STIFF GREY (5Y, 5/1) CLAY, SOME GRAVEL AND SAND, TRACE SILT - DRY.				CL	4.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
34.5 36.0	007976 01/22/88 13:35	11 12 15	15	STIFF GREY (5Y, 5/1) CLAY AND SILT, SOME GRAVEL AND SAND - DRY.				CL	1.75	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
36.0 37.5	007977 01/22/88 14:45	5 8 13	10	STIFF GREY (5Y, 5/1) SILTY CLAY, SOME GRAVEL AND SAND - DRY.				CL	1.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
37.5 39.0	007978 01/22/88 15:08	5 10 13	3	VERY SOFT GREY (5Y, 5/1) GRAVELLY CLAY, SOME SAND AND SILT - MOIST.				CL	<.25	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
39.0 40.5	007979 01/22/88 15:35	1 5 8	12	STIFF GREY (5Y, 5/1) SILTY CLAY, SOME SAND AND GRAVEL - MOIST.				CL	1.25	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
NOTES:										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

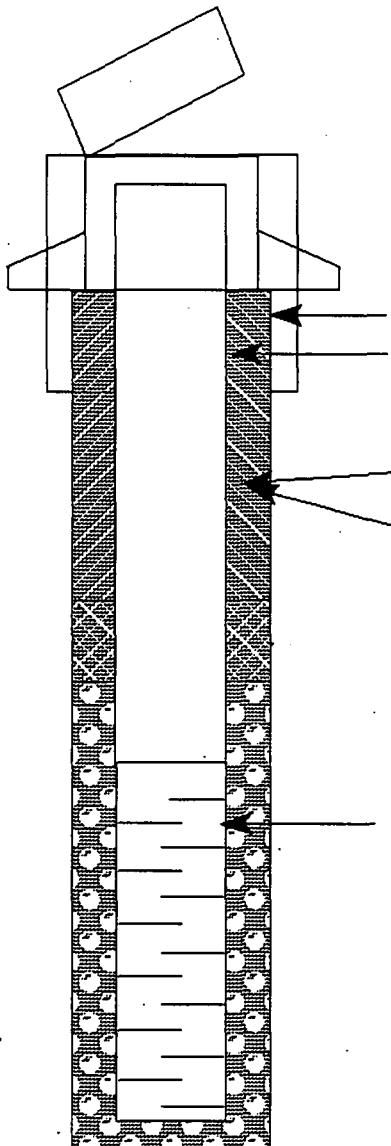
5173 02/02/94 13:57

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 3037					COORDINATES: NORTH 482141.43 EAST 1379791.96 DATE: 19-JAN-88					
GROUND ELEVATION: 588.5					GWL: Depth Date/Time DATE STARTED: 19-JAN-88					
ENGINEER/GEOLOGIST: W. KEGLEY					Depth Date/Time DATE COMPLETE: 03-FEB-88					
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	R E C O V R E Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS	
40.5 42.0	008105 01/22/88 16:00	5 28 12	9	STIFF GREY (5Y 5/1) GRAVELLY CLAY, SOME SAND AND SILT - MOIST.				CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
42.0 43.5	008106 01/22/88 16:25	5 15 23	10	STIFF GREY (5Y 5/1) GRAVELLY CLAY, SOME SAND AND SILT - MOIST. DENSE YELLOWISH BROWN (10YR 5/4) SAND - DRY.				CL SP	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
45.0 46.5	008107 01/22/88 16:46	27 40 26	13	VERY DENSE YELLOWISH BROWN (10YR, 5/4) SAND - DRY.				SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
70.0 71.5	008112 01/24/88 10:08	41 40 42	10	VERY DENSE DARK GREY (10YR, 4/1) GRAVELLY SAND - WET.				SW	N/A	PID=0 ppm $\delta\Gamma=100$ cpm
75.0 76.5	008113 01/24/88 14:20	17 27 27	14	VERY DENSE GREY (10YR, 5/1) SAND, TRACE GRAVEL AND SILT - WET.				SP	N/A	PID=0 ppm $\delta\Gamma=60$ cpm
80.0 81.5	008114 01/24/88 15:54	30 27 32	15	VERY DENSE GREY (10YR, 5/1) SAND, SOME GRAVEL, TRACE SILT - DRY.				SP	N/A	PID=0 ppm $\delta\Gamma=60$ cpm
90.0 91.5	008116 01/25/88 11:00	6 7 9	5	MEDIUM DENSE OLIVE GREY (5Y, 5/2) SANDY GRAVEL, TRACE SILT - WET.				GW	N/A	PID=0 ppm $\delta\Gamma=60$ cpm
95.0 96.5	008117 01/25/88 13:30	14 19 28	10	DENSE GREY (10YR, 5/1) SAND, SOME GRAVEL, TRACE SILT - WET.				SW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40$ cpm
100.0 101.5	008118 01/25/88 14:55	9 13 23	12	DENSE VERY DARK GREY (10YR, 3/1) SAND, TRACE GRAVEL AND SILT - WET.				SP	N/A	PID=0 ppm $\delta\Gamma=40$ cpm
105.0 106.5	008119 01/25/88 16:10	3 4 10	18	MEDIUM DENSE VERY DARK GREY (10YR 3/1) SAND - WET. MEDIUM DENSE VERY DARK GREY (10YR 3/1) GRAVEL, SOME SAND - WET.				SP GW	N/A	PID=0 ppm $\delta\Gamma=60$ cpm
110.0 111.5	008120 01/26/88 13:15	23 26 27	15	VERY DENSE DARK OLIVE GREY (5Y, 5/2) SAND, TRACE GRAVEL AND SILT - WET.				SP	N/A	$\delta\Gamma=40$ cpm
135.0 136.5	008123 02/03/88 09:20	4 11 20	12	STIFF DARK GREY (5Y, 4/1) CLAY, TRACE SILT - MOIST.				CL	1.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
NOTES:										
<p style="text-align: center;">SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>										

0604

TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1035	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: March 21, 1988	CONTRACTOR: NA
FIELD ENG./GEOL.: M. Slusarski	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



586.65 ft, Top of Casing (Protective pipe)

586.19 ft, Top of Well

584.8 ft, Concrete Elevation

584.3 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other Bentonite

0 ft, Top of Bentonite

9 ft, Bottom of Bentonite

13 ft, Top of Screen

Well Screen

4 ID in, Diameter

.01 in, Slot

11 Length (ft)

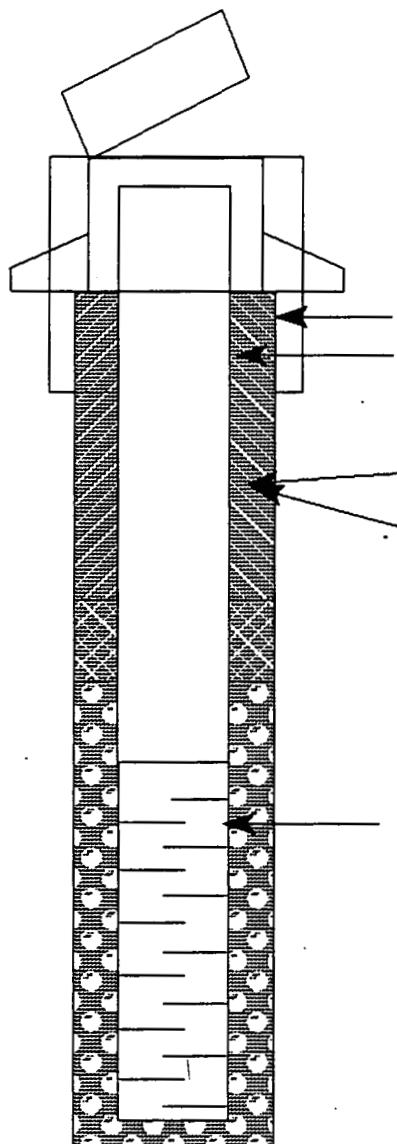
S. S. Material

24 ft, Bottom of Screen

27 ft, Bottom of Boring

TABLE C-23
 MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1038	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: January 13, 1988	CONTRACTOR: NA
FIELD ENG./GEOL.: W. Kegley	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



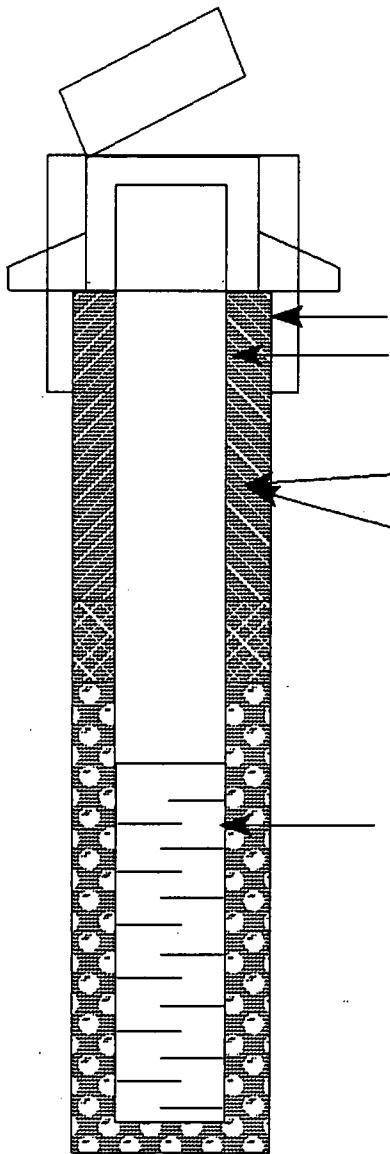
584.61 ft, Top of Casing (Protective pipe)
584.09 ft, Top of Well
582.4 ft, Concrete Elevation
581.9 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
9.5 ft, Top of Bentonite
14.2 ft, Bottom of Bentonite
16 ft, Top of Screen
 Well Screen
4 in, Diameter
.01 in, Slot
10 Length (ft)
S. S. Material
26 ft, Bottom of Screen
28.5 ft, Bottom of Boring

0606

Note: Elevations in feet
 above mean sea level.

TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1719	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	August 10, 1991	CONTRACTOR:	NA
FIELD ENG./GEOL.:	J. Lear	DRILLED BY:	NA
TYPE OF SEAL:	Grout	DRILLING METHOD:	Auger
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	10' Hollow Auger
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA



592.74 ft, Top of Casing (Protective pipe)

592.28 ft, Top of Well

NA ft, Concrete Elevation

590.1 ft, Ground Elevation

10 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

11 ft, Top of Bentonite

16.25 ft, Bottom of Bentonite

12.75 ft, Top of Screen

Well Screen

4 ID in, Diameter

.01 in, Slot

3 Length (ft)

S. S. Material

15.75 ft, Bottom of Screen

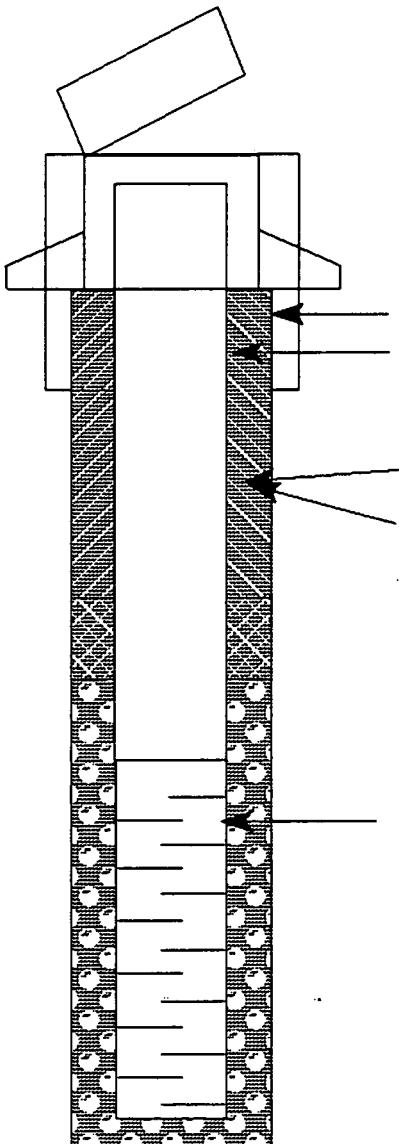
19.5 ft, Bottom of Boring

0607

Note: Elevations in feet
above mean sea level.

5173
TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2027	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: December 18, 1987	CONTRACTOR: NA
FIELD ENG./GEOL.: D. Oakley, W. Kegely	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA

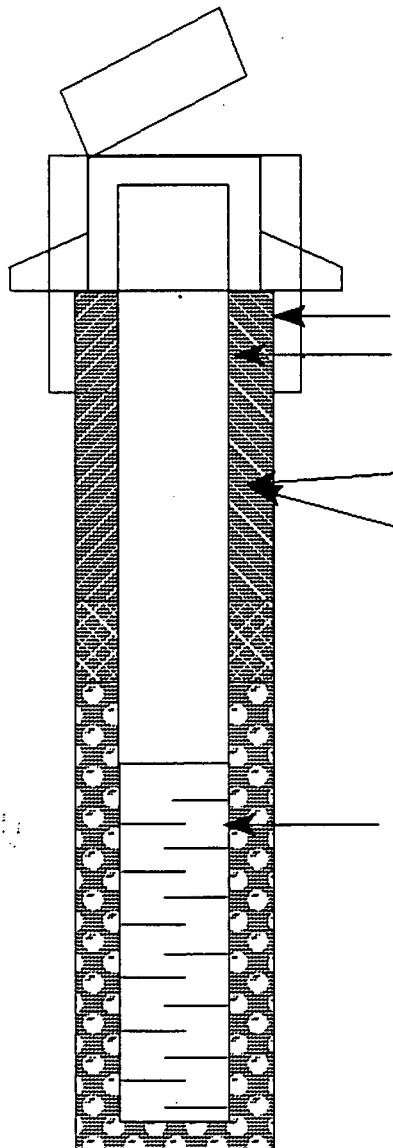


- 585.9 ft, Top of Casing (Protective pipe)
585.55 ft, Top of Well
538.6 ft, Concrete Elevation
582.7 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
47 ft, Top of Bentonite
56 ft, Bottom of Bentonite
58.4 ft, Top of Screen
 Well Screen
4 in, Diameter
.01 in, Slot
15 Length (ft)
S. S. Material
73.4 ft, Bottom of Screen
76.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2037	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	February 20, 1988	CONTRACTOR:	NA
FIELD ENG./GEOL.:	M. Slisarski	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Cable-Tool Drilling
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Flat Head Hammer
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA



591.08 ft, Top of Casing (Protective pipe)

590.54 ft, Top of Well

589.02 ft, Concrete Elevation

588.5 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

57 ft, Top of Bentonite

61 ft, Bottom of Bentonite

65 ft, Top of Screen

Well Screen

4 in, Diameter

.01 in, Slot

15 Length (ft)

S. S. Material

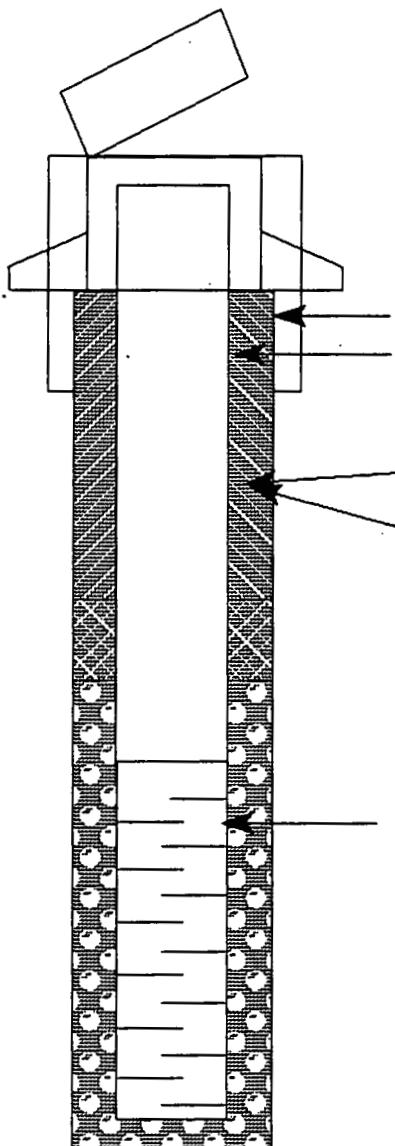
80 ft, Bottom of Screen

84 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1947	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: 4-28-93	CONTRACTOR: Pennsylvania Drilling
FIELD ENG./GEOL.: J. Reagan	DRILLED BY: Marty Watral
TYPE OF SEAL: Bentonite	DRILLING METHOD: Hollow Stem Auger
DEVELOPEMENT METHOD: Surge-Bail	TYPE OF BIT: Auger
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 580.4/5-7-93



592.48 ft, Top of Casing (Protective pipe)
591.88 ft, Top of Well
NA ft, Concrete Elevation
590.2 ft, Ground Elevation
8.5 in, Boring Diameter
2 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
7 ft, Top of Bentonite

8.5 ft, Bottom of Bentonite

10.5 ft, Top of Screen

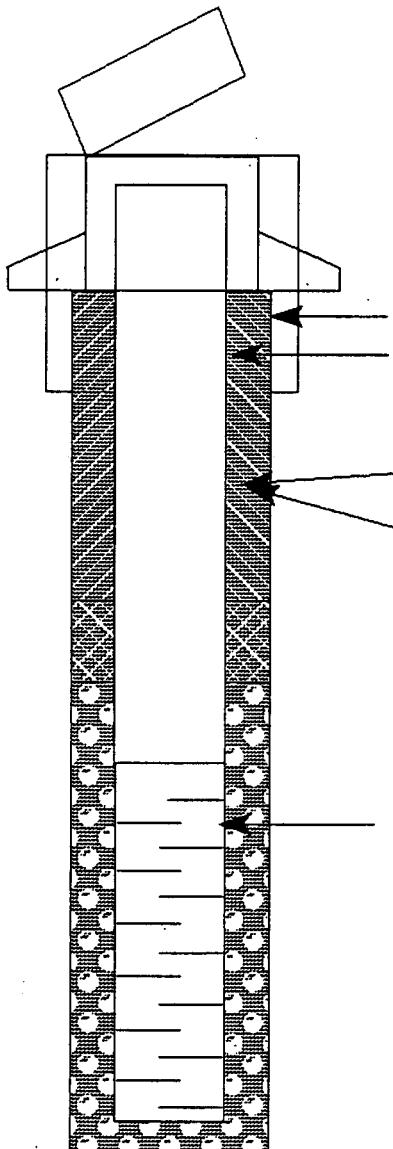
Well Screen
2 in, Diameter
.01 in, Slot
9.7 Length (ft)
S. S. Material

20.2 ft, Bottom of Screen
20.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1950	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	5-6-93	CONTRACTOR:	Pennsylvania Drilling Co.
FIELD ENG./GEOL.:	J. Regan	DRILLED BY:	M. Watral, B. Deiley
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Auger
DEVELOPEMENT METHOD:	Surge-Bail	TYPE OF BIT:	Auger
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	573.95/5-7-93

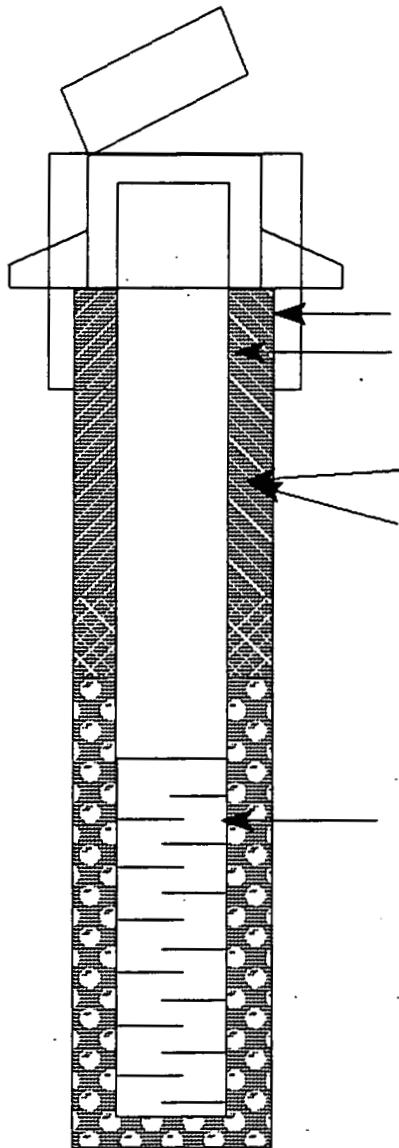


- 584.84 ft, Top of Casing (Protective pipe)
 - 584.34 ft, Top of Well
 - 582.89 ft, Concrete Elevation
 - 582.39 ft, Ground Elevation
 - 8.5 in, Boring Diameter
 - 2 in, Casing Diameter
 - 2.5 Bottom Protective Pipe
 - S. S. Casing Material
 - Grout
 - Other _____
 - 5 ft, Top of Bentonite
 - 7 ft, Bottom of Bentonite
 - 9 ft, Top of Screen
 - Well Screen
 - 2 in, Diameter
 - .01 in, Slot
 - 10 Length (ft)
 - S. S. Material
 - 19 ft, Bottom of Screen
 - 20 ft, Bottom of Boring
- 0611

Note: Elevations in feet
above mean sea level.

TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1952	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: 5-1-93	CONTRACTOR: Pennsylvania Drilling Co.
FIELD ENG./GEOL.: J. Reagan	DRILLED BY: NA
TYPE OF SEAL: Grout/Slurry	DRILLING METHOD: Hollow Stem Auger
DEVELOPEMENT METHOD: Surge-Bail	TYPE OF BIT: Auger
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 579.31/5-19-93

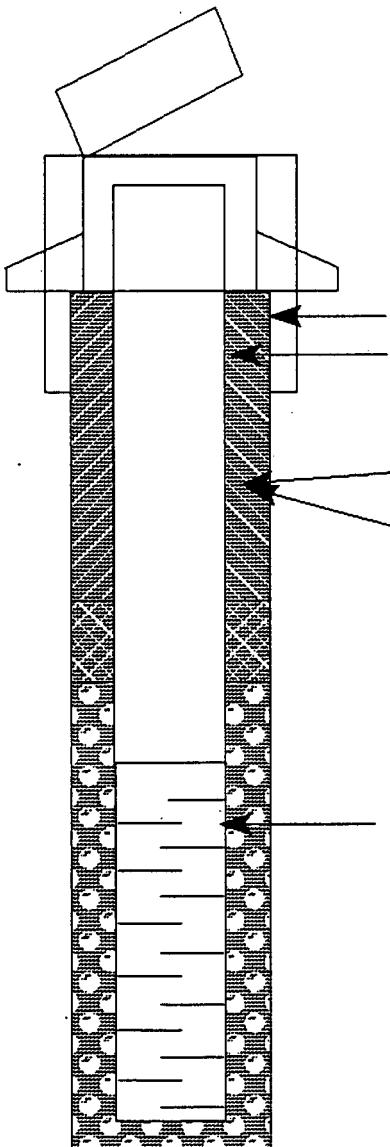


590.51 ft, Top of Casing (Protective pipe)
590.02 ft, Top of Well
588.51 ft, Concrete Elevation
588.01 ft, Ground Elevation
8.5 in, Boring Diameter
2 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
1 ft, Top of Bentonite
5.5 ft, Bottom of Bentonite
8 ft, Top of Screen
 Well Screen
2 in, Diameter
.01 in, Slot
10 Length (ft)
S. S. Material
18 ft, Bottom of Screen
20 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2947	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	April 18, 1993	CONTRACTOR:	Pennsylvania Drilling Co.
FIELD ENG./GEOL.:	P. McCarren	DRILLED BY:	Craig Coulter
TYPE OF SEAL:	Volclay Grout	DRILLING METHOD:	Cable Tool
DEVELOPEMENT METHOD:	Bail-Surge-Bail	TYPE OF BIT:	Hammer Percussion
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	522.31/5-7-93



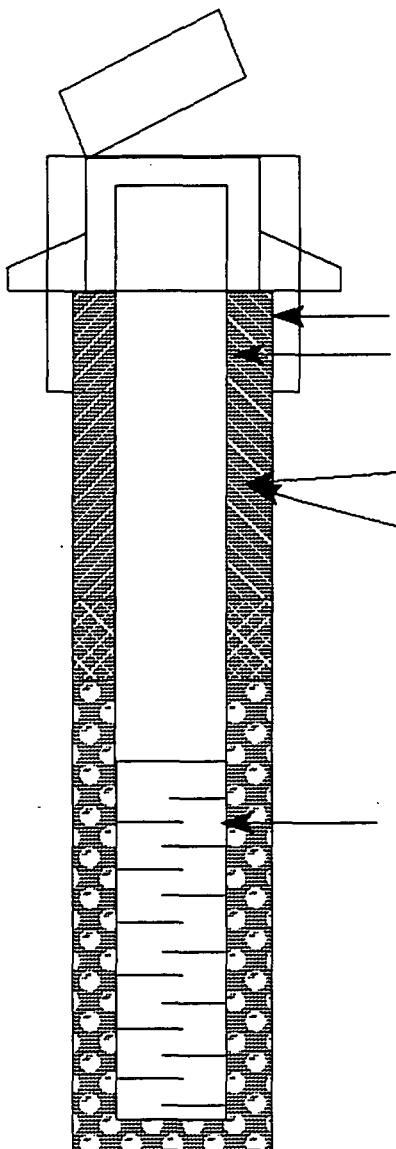
- 592.11 ft, Top of Casing (Protective pipe)
591.78 ft, Top of Well
NA ft, Concrete Elevation
589.8 ft, Ground Elevation
8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
1 ft, Top of Bentonite
53 ft, Bottom of Bentonite
63 ft, Top of Screen
 Well Screen
4 in, Diameter
.02 in, Slot
15 Length (ft)
S. S. Material
78 ft, Bottom of Screen
85 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

5173

TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2949	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	4-9-93	CONTRACTOR:	Pennsylvania Drilling Co.
FIELD ENG./GEOL.:	K. Payne	DRILLED BY:	NA
TYPE OF SEAL:	Grout/Slurry	DRILLING METHOD:	Cable Tool
DEVELOPEMENT METHOD:	Bail-Surge-Bail	TYPE OF BIT:	Hammer Percussion Bit
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	522.28/5-7-93

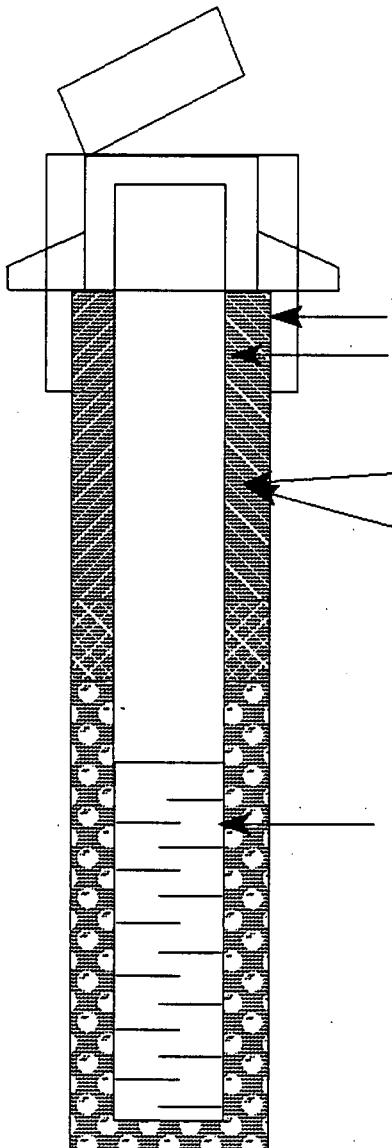


- 586.26 ft, Top of Casing (Protective pipe)
585.5 ft, Top of Well
NA ft, Concrete Elevation
583.8 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
7 ft, Top of Bentonite
50 ft, Bottom of Bentonite
60 ft, Top of Screen
 Well Screen
4 in, Diameter
.02 in, Slot
15 Length (ft)
S. S. Material
75 ft, Bottom of Screen
79 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2951	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	April 24, 1993	CONTRACTOR:	Pennsylvania Drilling
FIELD ENG./GEOL.:	K. Payne	DRILLED BY:	Bob Johnson, Lonnie McGlokin
TYPE OF SEAL:	Grout/Slurry	DRILLING METHOD:	Cable Tool
DEVELOPEMENT METHOD:	Bail-Surge-Bail	TYPE OF BIT:	Hammer Percussion Bit
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	521.83/5-7-93



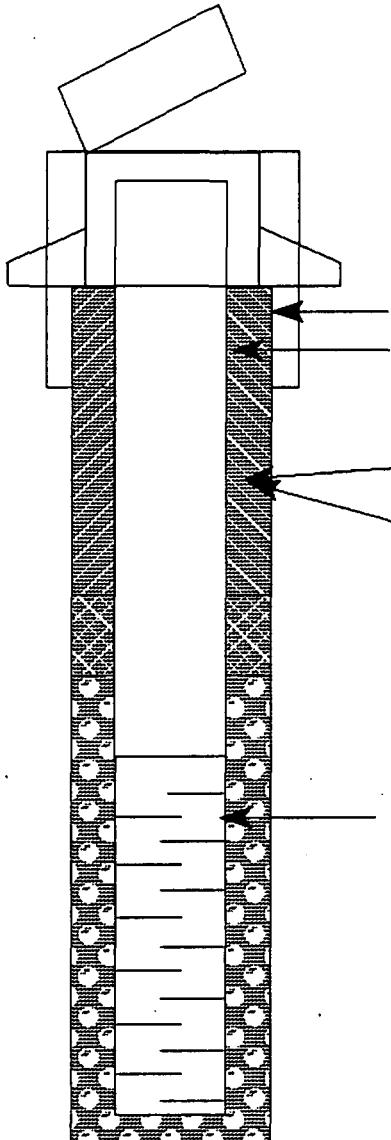
583.8 ft, Top of Casing (Protective pipe)
583.36 ft; Top of Well
 ft, Concrete Elevation
581.4 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
8 ft, Top of Bentonite
45 ft, Bottom of Bentonite
55 ft, Top of Screen
 Well Screen
4 in, Diameter
.01 in, Slot
15 Length (ft)
S. S. Material
70 ft, Bottom of Screen
75 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

6615

TABLE C-23
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2953	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: June 6, 1993	CONTRACTOR: Pennsylvania Drilling
FIELD ENG./GEOL.: Keith Payne	DRILLED BY: Bob Johnson, John Vandine
TYPE OF SEAL: Grout/Slurry	DRILLING METHOD: Cable Tool
DEVELOPEMENT METHOD: Bail-Surge-Bail	TYPE OF BIT: Hammer Percussion Bit
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 522.10/8-2-93



578.77 ft, Top of Casing (Protective pipe)

588.55 ft, Top of Well

NA ft, Concrete Elevation

586.6 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

.8 ft, Top of Bentonite

49.8 ft, Bottom of Bentonite

60 ft, Top of Screen

Well Screen

4 in, Diameter

.01 in, Slot

15 Length (ft)

S. S. Material

75 ft, Bottom of Screen

80 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE C-24A
SOLID WASTE LANDFILL
GROUNDWATER ELEVATION DATA^a, 1988 - 1992
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
1988	1035	NMT ^b	NMT	NMT	NMT	578.39	577.46	576.09	576.95	576.58	575.91	576.46	577.62
1988	1038	NMT	NMT	568.98	569.21	569.09	569.19	568.94	569.06	568.80	568.73	568.82	568.78
1988	2027	519.21	519.51	520.09	520.68	521.05	521.07	520.27	520.03	518.89	518.64	517.95	518.12
1988	2037	NMT	NMT	519.76	NMT	520.66	520.67	519.94	519.20	518.42	518.22	517.49	517.66
1988	2052	DRY	518.94	519.01	519.01	DRY	518.80	518.81	519.16	518.51	518.15	517.24	517.31
1989	1035	579.44	578.64	580.15	578.75	579.02	578.56	577.91	NMT	NMT	577.70	579.08	576.47
1989	1038	568.42	567.27	566.84	568.62	568.68	568.74	568.87	567.82	569.30	569.46	569.73	569.54
1989	2027	517.75	518.35	519.22	520.39	521.87	523.11	523.53	523.00	522.34	520.33	521.24	521.42
1989	2037	517.22	517.84	518.76	519.98	521.59	522.93	523.23	522.74	522.01	521.59	521.16	521.00
1989	2052	516.78	517.47	518.21	519.71	521.59	523.11	523.46	522.91	522.03	520.26	521.01	520.68
1990	1035	579.46	580.67	NMT	578.64	579.03	578.19	578.41	577.73	578.55	578.13	578.38	578.97
1990	1038	569.91	567.50	NMT	569.91	569.86	553.44	570.17	569.71	570.23	569.72	569.79	570.73
1990	2027	521.11	521.57	NMT	523.05	523.50	524.47	524.05	523.87	523.19	523.01	523.05	523.03
1990	2037	520.58	521.06	NMT	522.70	523.14	524.12	523.64	523.49	522.00	522.42	522.57	522.49
1990	2052	520.42	520.14	NMT	522.66	523.04	524.17	523.65	523.62	523.01	522.21	522.49	522.71
1991	1035	578.96	578.85	NMT	NMT	NMT	577.88	NMT	NMT	577.17	576.62	576.88	577.99
1991	1038	570.53	569.87	NMT	NMT	NMT	570.19	570.03	570.39	570.37	570.51	570.10	570.35
1991	2027	524.36	524.77	NMT	NMT	NMT	524.98	523.55	522.72	521.87	521.39	520.61	519.75
1991	2037	524.05	524.48	NMT	NMT	NMT	524.04	NMT	522.18	521.29	520.82	519.97	519.16
1991	2052	523.47	524.68	524.85	NMT	NMT	524.43	523.05	522.16	521.60	520.69	520.20	519.07
1992	1035	579.27	578.61	578.27	578.41	NMT	NMT	NMT	NMT	576.92	577.75	578.35	578.29
1992	1038	570.60	570.51	570.01	570.96	NMT	570.38	570.10	570.39	570.79	570.44	570.41	570.25

See footnotes at end of table

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TABLE C-24A
(Continued)

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
MISCELLANEOUS GROUNDWATER ELEVATION DATA													
1992	2027	519.59	NMT	518.92	519.18	NMT	519.57	519.67	520.06	520.24	519.62	519.90	520.05
1992	2037	519.00	518.98	518.58	518.64	NMT	519.00	519.34	519.82	520.03	519.40	519.65	520.03
1992	2052	518.90	525.49	518.32	518.07	NMT	519.02	519.20	519.64	519.67	519.35	519.39	519.32
1988	1025	NMT	569.82	570.33	570.04	561.54	568.34	570.85	571.07	571.16	570.88	570.75	570.63
1988	1064	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	559.92
1988	1080	NMT	NMT	NMT	NMT	560.15	567.24	567.55	560.89	567.71	567.83	567.73	568.18
1988	1081	575.10	575.95	576.69	576.89	575.49	575.35	575.05	575.04	574.95	574.71	574.68	575.05
1988	2068	517.88	518.34	519.34	520.10	520.17	519.75	518.81	518.17	517.52	517.13	516.50	516.58
1989	1025	570.34	563.52	570.48	569.89	571.37	571.73	571.75	571.95	DRY	570.27	571.62	570.84
1989	1064	566.90	577.59	577.35	577.55	577.06	574.76	573.94	NMT	573.44	571.12	573.28	572.46
1989	1080	568.61	568.40	567.77	NMT	568.95	568.74	568.06	568.05	566.85	566.62	568.66	NMT
1989	1081	575.73	575.87	576.69	576.65	576.72	575.25	575.64	570.27	575.51	575.35	575.53	575.10
1989	2068	516.43	517.38	518.45	520.65	522.20	523.52	522.80	521.94	521.14	519.17	519.98	519.75
1989	2106	NMT	518.78	520.45	522.23	523.09	523.43	522.40	521.51	NMT	519.07	520.35	519.97
1990	1025	570.63	NMT	NMT	570.95	570.38	571.63	571.84	567.72	572.08	572.27	569.76	571.57
1990	1064	573.71	576.65	NMT	575.50	575.41	574.95	NMT	573.03	572.98	565.36	574.30	576.57
1990	1080	567.98	568.72	NMT	568.72	564.65	568.64	NMT	568.37	568.69	567.36	NMT	569.46
1990	1081	575.63	563.32	NMT	576.00	577.49	576.13	576.07	575.79	575.71	577.05	575.75	NMT
1990	2068	519.49	520.14	NMT	522.23	522.74	523.68	523.02	522.66	521.59	521.59	521.85	521.85
1990	2106	520.57	521.75	522.81	523.05	524.29	523.65	523.20	522.32	521.84	522.66	522.35	522.62
1990	2385	NMT	NMT	NMT	NMT	524.11	519.57	523.73	523.07	522.22	522.46	522.73	522.83
1990	2397	NMT	NMT	NMT	NMT	NMT	NMT	NMT	522.61	521.93	521.99	521.99	522.21
1991	1025	571.37	566.77	NMT	NMT	NMT	570.50	571.58	571.89	NMT	572.11	572.19	571.59

See footnotes at end of table

TABLE C-24A
(Continued)

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
MISCELLANEOUS GROUNDWATER ELEVATION DATA (continued)													
1991	1032	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	559.11	559.10	559.49
1991	1064	579.80	579.37	579.57	NMT	NMT	575.18	NMT	573.24	NMT	NMT	NMT	NMT
1991	1080	569.21	568.91	NMT	NMT	NMT	565.70	564.22	NMT	NMT	NMT	NMT	NMT
1991	1081	NMT	NMT	NMT	NMT	NMT	576.54	NMT	NMT	NMT	NMT	NMT	NMT
1991	1907	NMT	NMT	NMT	NMT	NMT	NMT	DRY	NMT	NMT	NMT	NMT	NMT
1991	2068	524.12	524.08	524.14	NMT	NMT	523.41	521.98	520.74	NMT	519.36	518.68	517.85
1991	2106	524.05	522.99	524.35	NMT	NMT	523.34	NMT	521.21	520.90	NMT	NMT	NMT
1991	2385	524.71	524.10	524.73	NMT	524.34	NMT	522.45	521.71	521.28	520.40	519.74	519.00
1991	2397	524.46	524.38	524.26	NMT	NMT	523.38	521.97	521.20	520.62	519.79	519.08	518.27
1992	1025	572.19	568.27	NMT	NMT	NMT	570.89	565.54	572.03	572.39	571.88	571.64	571.29
1992	1032	561.02	559.05	559.09	559.50	NMT	560.49	561.05	559.17	559.46	560.17	560.88	559.16
1992	2068	517.60	517.60	517.44	517.56	NMT	517.29	518.63	519.52	519.07	518.71	518.68	519.37
1992	2385	518.98	519.05	518.89	519.23	NMT	519.20	NMT	519.91	519.87	519.47	519.49	520.25
1992	2397	517.99	518.07	517.95	518.18	NMT	518.63	518.91	NMT	519.33	519.01	519.00	519.63

^aFeet above Mean Sea Level

^bNo measurement taken

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TABLE C-24B

SOLID WASTE LANDFILL
GROUNDWATER ELEVATION DATA^a, 1993
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Well ID	3/18/93	3/23/93	4/09/93	4/19/93	5/07/93	5/19/93	6/02/93	6/21/93	7/08/93	7/19/93	8/02/93	8/16/93
1035	578.49	579.05	578.43	578.54	578.87	578.17	576.68	577.82	577.43	577.18	576.37	576.56
1038	570.34	570.70	570.95	567.87	568.01	569.83	570.34	570.49	570.43	570.59	570.74	570.64
1719	579.30	579.38	579.50	579.52	576.73	579.30	NMT ^b	577.12	577.42	575.38	576.08	576.47
1947	NMT	NMT	NMT	NMT	580.40	NMT	580.69	580.69	580.53	580.31	580.20	580.08
1950	NMT	NMT	NMT	NMT	573.95	578.79	578.39	575.19	577.47	577.10	576.62	576.03
1952	NMT	NMT	NMT	NMT	NMT	579.31	NMT	579.24	579.15	579.14	579.13	579.12
2027	520.90	521.80	522.15	522.13	522.09	522.65	522.45	522.50	522.53	522.22	522.14	585.90
2037	520.68	NMT	521.78	521.86	521.96	522.00	522.29	522.32	522.03	521.76	521.93	521.59
2052	520.62	NMT	521.80	521.83	522.00	522.13	522.20	522.28	521.93	521.95	521.83	521.56
2947	NMT	NMT	NMT	NMT	522.31	NMT	NMT	522.29	522.10	521.89	522.00	521.56
2949	NMT	NMT	NMT	NMT	522.28	522.38	522.51	522.41	522.28	522.07	522.18	521.77
2951	NMT	NMT	NMT	NMT	521.83	NMT	522.17	522.20	521.92	521.92	521.83	521.45
2953	NMT	NMT	NMT	NMT	522.10	521.72						

^aFeet above Mean Sea Level^bNMT = No measurement taken

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KEY TO DATA TABLES

FLTD Filtered Status of the Sample (applies to water samples)

- FILT Filtered sample; filtered status identified on Request for Analysis/Chain of Custody
- UNFI Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody
- *F Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.
- *U Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.
- UNKN Unknown; filtered status could not be determined.

L Analytical Support Level (ASL)

The analytical support level for sample analyses and data validation, defined as follows:

- A *Qualitative Field Analysis* - Analogous to EPA analytical level 1.
- B *Qualitative, Semi-Quantitative, and Quantitative Analyses* - Analogous to EPA analytical level 2.
- C *Quantitative with fully defined QA/QC* - Laboratory analyses generated with full QA/QC checks of types and frequencies specified for ASL D according to FEMP-specified analytical protocols for radiological and nonradiological parameters. The analytical methods are identical to ASL D for QA/QC sample analysis and method performance criteria. However, the data package does not typically contain raw instrument output but does include summaries of QA/QC sample results. Laboratories are required to retain, in the project file, raw instrument data to upgrade ASL C reports to ASL D. Analogous to EPA analytical level 3.
- D *Confirmational with complete QA/QC and reporting* - Provides data generated with a full complement of QA/QC checks of specified types and frequencies according to FEMP-specified analytical protocols for radiological and nonradiological parameters. Analogous to EPA analytical level 4.
- E *Nonstandard* - Analyses by nonstandard protocols that often require method development or validation. Analogous to EPA analytical level 5.

NOTE: The number 3 is sometimes used to indicate ASL C. Likewise, the numbers 4 and 5 are sometimes used to indicate ASLs D and E, respectively.

VQ Data Validation Qualifier

- J Analyte was analyzed for and positively identified, but the associated numerical value may not be consistent with the amount present in the environmental sample.

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February 18, 1994

KEY TO DATA TABLES
(continued)

VQ Data Validation Qualifier (continued)

- N** Analysis indicates that an analyte is present and there are strong indications that the identity is correct.
- R** Data are unusable for any purpose. Analyte was analyzed for, but the presence or absence of the analyte was not verified.
- U** Analyte was analyzed for and was not present above the level of the associated value. Associated numerical value indicates the approximate concentration necessary to detect the analyte in the sample.
- UJ** This is a combination of the U and J qualifiers. Analyte was analyzed for and was not present above the level of the associated value. The associated value may not accurately or precisely represent the concentration necessary to detect the analyte in the sample.
- No data validation qualifier assigned.

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TABLE D-1A
LIME SLUDGE PONDS
SUMMARY OF RI/FS SAMPLE COLLECTION ACTIVITIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Location	Sample No.	Date Collected	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/ PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
SURFACE WATER											
North Pond	067500	8/29/91	X ^e	X	-	X	X	X	X	X	-
	067008	5/14/91	X	-	-	X	X	X	X	X	-
	067900	11/6/91	-	X	-	X	X	X	-	X	-
	067907	11/7/91	-	-	-	-	-	-	-	X	-
GROUNDWATER SAMPLES											
1039	003179	5/11/88	X	-	-	-	-	-	X	X	-
	003491	8/10/88	X	-	-	-	-	-	X	X	-
	003733	11/20/88	X	-	-	-	-	-	X	X	-
	003928	2/5/89	X	-	-	-	-	-	X	X	-
1041	003180	5/11/88	X	-	-	-	-	-	X	X	-
	003490	8/10/88	X	-	-	-	-	-	X	X	-
	003732	11/17/88	X	-	-	-	-	-	X	X	-
	003924	3/1/89	X	-	-	-	-	-	X	X	-
1042	003182	5/11/88	X	-	-	-	-	-	X	X	-
	003416	8/9/88	X	-	-	-	-	-	X	X	-
	003723	11/17/88	X	-	-	-	-	-	X	X	-
	003922	3/1/89	X	-	-	-	-	-	X	X	-
1134	045426	10/18/89	Total Uranium only	-	-	-	-	-	-	-	-
	045427	10/18/89	-	-	-	-	-	-	nitrato only	-	-
	045428	1/31/90	-	-	-	-	-	-	nitrato only	-	-

See footnotes at end of table

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TABLE D-1A
(Continued)

Location	Sample No.	Date Collected	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/ PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
GROUNDWATER SAMPLES (Continued)											
1210	045738	10/22/89	-	-	-	-	-	-	nitrate only	-	-
	045739	10/22/89	Total Uranium only	-	-	-	-	-	-	-	-
	045740	7/2/90	-	-	-	-	-	-	nitrate only	-	-
1229	045780	10/23/89	Total Uranium only	-	-	-	-	-	-	-	-
	045781	10/23/89	-	-	-	-	-	-	nitrate only	-	-
	045782	6/30/90	-	-	-	-	-	-	nitrate only	-	-
2042	003150	5/4/88	X	-	-	X	X	X	X	X	-
	003415	8/9/88	X	-	-	-	-	X	X	X	-
	003722	11/17/88	X	-	-	-	-	-	X	X	-
	003921	3/1/89	X	-	-	-	-	-	X	X	-
	004036 (duplicate of 003921)	3/1/89	X	-	-	-	-	-	X	X	-
	066845	1/5/90	X	-	-	-	-	-	-	-	-
4101	003031	12/4/87	-	X	X	X	-	X	X	X	-
	003207	5/19/88	X	-	-	-	-	-	X	X	-
	003208 (duplicate of 003207)	5/19/88	X	-	-	-	-	-	X	X	-
	003409	8/8/88	X	-	-	-	-	-	X	X	-
	003410 (duplicate of 003409)	8/8/88	X	-	-	-	-	-	X	X	-
	003719	11/18/88	X	-	-	-	-	-	X	X	-
	003918	3/15/89	X	-	-	X	X	X	X	X	-
	066736	12/7/89	X	-	-	-	-	-	-	-	-
	066737	12/7/89	-	-	-	-	-	X	-	X	-

See footnotes at end of table

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TABLE D-1A
(Continued)

Location	Sample No.	Date Collected	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/ PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
GROUNDWATER SAMPLES (Continued)											
4102	003205	5/19/88	X	-	-	-	-	-	X	X	-
	003206 (duplicate of 003205)	5/19/88	X	-	-	-	-	-	X	X	-
	003412	8/8/88	X	-	-	-	-	-	X	X	-
	003413 (duplicate of 003412)	8/8/88	X	-	-	-	-	-	X	X	-
	003720	11/18/88	X	-	-	-	-	-	X	X	-
	003919	2/23/89	X	-	-	-	-	-	X	X	-
	066738	12/7/89	X	-	-	-	-	-	-	-	-
	066739	12/7/89	-	-	-	-	X	-	X	X	-

Location	Sample No.	Sample Interval (ft) ^g	Radionuclides	Herbicide Organics	Dioxins/ Furans	Pest/ PCB ^a	VOC ^b	SVOC ^c	General Chemistry	Metals	TCLP ^d
SUBSURFACE SAMPLES											
1039	008439	12.0-13.5	X	-	-	-	-	-	-	-	-
1041	008448	0.0-1.5	X	-	-	-	-	-	-	-	-
1716	067904	0.0-2.0	X	X	X	X	X	X	sulfide only	X	-
	067007	1.5-2.0	-	-	-	-	-	-	-	-	X
1717	067902	0.0-2.0	X	X	X	X	X	X	sulfide only	X	-
	067003	1.5-2.0	-	-	-	-	-	-	-	-	X
2042	008869	3.0-4.5	X	-	-	-	-	-	-	-	-
	008509	45.0-46.5	X	-	-	-	-	-	-	-	-

626 Pest/PCB = Pesticide/Polychlorinated Biphenyl

VOC = Volatile Organic Compound

SVOC = Semivolatile Organic Compound

^aTCLP = Toxicity Characteristic Leaching Procedure

^bX = Sample analyzed for parameter indicated

^cf Sample not analyzed for this parameter

^dg Sample interval is depth, in feet, below the ground surface.

TABLE D-1B

NORTH LIME SLUDGE POND
SUMMARY OF RCRA FACILITY ASSESSMENT SAMPLE ACTIVITIES
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Location	Sample No.	Sample Interval (ft) ^a	Total Volatiles	TCLP ^b
SURFACE WATER SAMPLES				
SP-4	911120-087	NA ^c	X ^d	X
SP-5	911120-088	NA	X	X
SP-6	911120-089	NA	X	metals and SVOCs ^e only
SUBSURFACE SAMPLES				
SP-EF-1-1	920407-198	0.0-3.0	X	X
SP-EF-2-1	920407-197	0.0-3.0	X	X
SP-EF-3-1	920407-199	0.0-1.0	X	X
SP-INF-1	920319-052	0.0-1.0	X	X
	920319-053	1.0-2.0	X	X
	920319-054	2.0-3.0	X	X
	920319-055	3.0-4.0	X	X
	920319-056	4.0-5.0	X	X
	920319-057	5.0-6.0	X	X
SP-INF-2	920319-058	0.0-1.0	X	X
	920319-059	1.0-2.0	X	X
	920319-060	1.0-2.0	X	X
SP-1	911122-005	0.0-1.0	X	X
SP-2	920323-085	2.0-3.0	X	X
	920323-086	3.0-4.0	_f	X
	920323-087	4.0-5.0	X	X

See footnotes at end of table

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TABLE D-1B
(Continued)

Location	Sample No.	Sample Interval (ft) ^a	Total Volatiles	TCLP ^b
SUBSURFACE SAMPLES (continued)				
SP-3	920323-088	0.0-1.0	X	X
	920323-089	1.0-2.0	X	X
	920323-090	2.0-3.0	X	X
	920323-091	3.0-4.0	X	X
	920323-092	4.0-5.0	X	X
SP-3-1	911114-039	0.0-0.1	X	X
SP-4	920323-093	0.0-1.0	X	X
	920323-094	1.0-2.0	X	X
	920323-095	2.0-3.0	X	X
	920323-096	3.0-4.0	X	X
	920323-097	6.0-7.0	X	X
SP-10-1	920407-192	0.0-1.0	X	X
SP-10-2	920407-193	1.0-2.0	X	X
SP-10-2A	920407-194	1.0-2.0	X	X
SP-10-3	920407-195	2.0-3.0	X	X
SP-10-4	920407-196	3.0-4.0	X	X
SP-11	920211-237	0.0-7.0	X	X
SP-14	920211-239	0.0-10.0	X	X
	920211-236	0.0-10.0	X	X

^aThe sample interval is depth, in feet, below the ground surface.^bTCLP = Toxicity Characteristic Leaching Procedure^cNA = Not applicable^dX = Sample analyzed for parameter indicated^eSVOCs = Semivolatile Organic Compounds^fSample not analyzed for parameter indicated

TABLE D-1C

LIME SLUDGE PONDS
SUMMARY OF RI/FS SAMPLE COLLECTION ACTIVITIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Monitoring Well or Sample Location	Sample Numbers	Target Analyte List 20.03.05	
		Total Uranium Screening A	Full HSL, Gen. GW Qual., Full Rad. B
SURFACE WATER SAMPLES			
LSP-SW-01	114593		X
	114595 ^b (duplicate of 114593)		X
	114596 (duplicate of 114597)	X	
	114597 ^b	X	
K-65 Trench ^b	114770	X	
GROUNDWATER SAMPLES			
1039	111990		X
	111991	X	
1041	116220		X
	116221 ^b		X ^d
	116329	X	
	116330 ^b	X	
1042	110889		X
	110890	X	
1134		X	X
1176		X	X
1210		X	X
1229		X	X
1934	114620		X
	114621	X	
	114622 ^b (duplicate of 114620)		X ^h
	114623		
1937	114617		X ^{g,f}
	114618	X	
	114626		X ^m , TOC
	114782 ^b		X ^h

See footnotes at end of table

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TABLE D-1C
(Continued)

Monitoring Well or Sample Location	Sample Numbers	Target Analyte List 20.03.05	
		Total Uranium Screening A	Full HSL, Gen. GW Qual., Full Rad. B
GROUNDWATER SAMPLES (Continued)			
1940	114786	X	
	114784		X
	114785 ^b		X ^h
2042	110989		X
	110990 ^b		X ^d
	110991	X	
	110992 ^b	X	
	110994 ^b (duplicate of 110989)		X
	110995 ^b (duplicate of 110990)		X ^d
	110996 ^b (duplicate of 110991)	X	
	110997 ^b (duplicate of 110992)	X	
2935	114921		X
	114923	X	
2936	114788		X
	114789 ^b		X ^h
	114791	X	
	114917 ^b (duplicate of 114788)		X
	114918 ^b (duplicate of 114789)		X ^h
	114920 ^b (duplicate of 114791)	X	
2939	114924		X
	114926	X	

See footnotes at end of table

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TABLE D-1C
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05							
			Screening	Chem/Rad	RCRA/Geotechnical					
			A	C	D	E	F	G	H	J
SURFACE SAMPLES										
LSP-TR-01	114581 ^b	0.0 - 0.5		X ^p						
	114584		X							
	114589			X						
LSP-TR-02	114585	0.0 - 0.5	X							
	114591			X						
LSP-SS-03	114467	0.0 - 0.5		X						
	114470		X							
LSP-SS-04	114474	0.0 - 0.5		X						
	114483		X							
LSP-SS-05	114485	0.0 - 0.5		X						
LSP-SS-06	114487	0.0 - 0.5		X						X
	114493				SA, HA, W					
LSP-SS-07	114477	0.0 - 0.5		X						
LSP-SS-08	114488	0.0 - 0.5		X						
LSP-SS-09	114598	0.0 - 0.5		X						
LSP-SS-10	114881	0.0 - 0.5		X						
LSP-SS-11	114498	0.0 - 0.5		X						
LSP-SS-12	114501	0.0 - 0.5		X						
LSP-SS-13	114514	0.0 - 0.5		X						
LSP-SS-14	114516	0.0 - 0.5		X						
SUBSURFACE SAMPLES										
LSP-SS-03	114469	0.5 - 1.0		X						
	114471		X							
LSP-SS-04	114476	0.5 - 1.0		X						
	114484		X							
LSP-SS-07	114479	0.5 - 1.0		X						
LSP-SS-08	114490	0.5 - 1.0		X						
LSP-SS-11	114500	0.5 - 1.0		X						
LSP-SS-12	114503	0.5 - 1.0		X						

{ See footnotes at end of table

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TABLE D-1C
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05									
			Screening		Chem/Rad		RCRA/Geotechnical					
			A	C	D	E	F	G	H	J		
SUBSURFACE SAMPLES (Continued)												
LSP-SB-01	114564	0.5 - 1.0		X								
	114565		X									
LSP-SB-02	114567	1.0 - 3.0				TOC						
	114568					X ^g						
LSP-SB-03	114508	0.5 - 1.0		X								
	114513		X									
LSP-SB-04	114510	0.5 - 1.0		X								
LSP-SB-04	114868 ^b	0.5 - 1.0		X ^k								
	114570			X								
	114573		X									
	114572	1.0 - 3.0				TOC						
	114574					X ^g						
LSP-SB-05	114603	0.5 - 1.0	X									
	114600			X								
LSP-SB-06	114602	0.5 - 1.0		X								
LSP-SB-07	114576	0.5 - 1.0		X								
	114578	1.0 - 3.0				TOC	X					
	114575					X ^g						
K-65 Trench 30'	114767	0.0 - 6.0		X								
K-65 Trench 168'	114774	0.0-2.0	X ⁱ									
K-65 Trench 225'-234'	114776	0.0 - 6.0		X								
	114777		X ⁱ									
1934	114540	2.0 - 4.0						UC	X			
	111182	4.0 - 6.0	X									
	111183					TOC						
	111184					X ^g						
1937	111141	2.0 - 4.0				X ^g						
	111142		X									
	111143					TOC						

See footnotes at end of table

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TABLE D-1C
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05									
			Screening		Chem/Rad		RCRA/Geotechnical					
			A	C	D	E	F	G	H	J		
SUBSURFACE SAMPLES (Continued)												
1940	114671	2.0 - 4.0							UC	X		
	114672	4.0 - 6.0					X ^g					
	114673						TOC					
	114674 ^b	6.0 - 6.5	X									
1956	114857	0.0 - 4.0		X								
	114858								X			
	114861					W	X					
	114859	6.0 - 7.0		X ^b						X		
	114862 ^b	7.0 - 9.5				X ^g						
	114863 ^b					TOC						
		10.0 - 10.5		X								
		10.5 - 12.5				X				I		
		12.5 - 14.5						X	X			
1957	114835 ^b	0.5 - 2.0		X ^f								
	114836 ^b								X			
	114854 ^b					W						
	114872 ^b			I ^m								
	114837	2.0 - 4.0				TOC	X			X		
	114855 ^b					X ^g						
	114838 ^b	4.0 - 5.0		X								
		5.0 - 7.0		X		W			X			
		8.0 - 10.0				X						
		10.0 - 10.5		X								
		10.5 - 13.5								X		
1958	114821	0.5 - 2.5		X								
	114822 ^a								X			
	114827 ^a					W						
	114823	4.5 - 5.0		X								
	114824	5.0 - 6.0				TOC	X			X		
	114828 ^b					X ^g						
		10.0 - 10.5		X								

See footnotes at end of table

TABLE D-1C
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05									
			Screening		Chem/Rad		RCRA/Geotechnical					
			A	C	D	E	F	G	H	J		
SUBSURFACE SAMPLES (Continued)												
1958 (continued)												
1959	114818	2.0 - 3.0				X						
	114812	3.0 - 5.0		X								
	114813								X			
	114819 ^a					W						
		5.0 - 5.5		X						X		
		5.5 - 7.5					X			X		
	114814	8.0 - 8.5		X								
		8.0 - 10.0						X		X		
		10.0 - 10.5		X								
	114815	11.0 - 13.5		X								
1960	114816					TOC						
	114820					X ^g						
	114733	2.5 - 5.0								X		
	114736					W						
	114734	5.0 - 6.0		X								
		5.5 - 7.5								X		
1961		10.0 - 12.0						X		X		
	114737 ^a	13.0 - 13.5		X								
	114745	2.0 - 4.0		X								
	114746									X		
	114747	7.0 - 9.0				TOC						
	114748					X ^g				X		
	114742	10.0 - 12.0				TOC						
1962	114749					X ^g						
	114743	12.0 - 13.0		X								
	114604	2.5 - 4.5				W						
	114609									X		
	114605	4.5 - 7.0		X						X		
	114607 ^a	12.5 - 14.0		X								

See footnotes at end of table

TABLE D-1C
(Continued)

Sample Location	Sample Number	Sample Interval (ft.)	Target Analyte List 20.03.05									
			Screening		Chem/Rad		RCRA/Geotechnical					
			A	C	D	E	F	G	H	J		
SUBSURFACE SAMPLES (Continued)												
1962 (continued)												
1963	114762	12.5 - 15.0		X								
	114763		2.0 - 4.0							X		
	114764	4.0 - 6.0				TOC						
	114793					X ^g						
		6.0 - 8.0								X		
		10.0 - 12.0				X						
	114794	12.0 - 15.5				X ^g						
	114765					TOC						
	114766			X								
	114874 ^b	17.0 - 18.5		X ^f								
	114879 ^b			X ^m								
2935	110789	2.0 - 4.0	X									
	110790					X ^g						
	110811					TOC						
2936	110938	2.0 - 4.0							UC	X		
	110942	4.0 - 6.0	X									
	110943					X ^g						
	110944					TOC						
2939	110828	2.0 - 4.0	X									

See footnotes at end of table

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TABLE D-1C
(Continued)**TARGET ANALYTE LIST DETAILS:**

[A] Water/Soil - Total Uranium

[B] Water - Full Hazardous Substance List (HSL), Full Rad., General Groundwater Quality Parameters

[C] Soil/Sediment/Sludge/Waste - Full HSL, Full Rad.

[D] Classification Tests

SG=Specific Gravity

W=Water Content

LL=Liquid Limit

PL=Plastic Limit

Grain Size

SA=Sieve Analysis

HA=Hydrometer Analysis

Other

TOC=Total Organic Carbon

[E] CON=Consolidation Test

[F] HC=Hydraulic Conductivity

[G] Strength Tests

UC=Unconfined Compression

CIU=Consolidated Isotropic Undrained Triaxial

DS=Direct Shear

[H] Toxicity Characteristic Leaching Procedure (TCLP)

[J] Dry Unit Weight

NOTES: X = Sample analyzed for parameter indicated, except where shaded.

The shaded areas represent samples or analyses that were specified in the Sampling and Analysis Plan (SAP) but were not performed. These differences may be due to field conditions (e.g., dry well) or laboratory variances (e.g., missed holding time).

^aSubstitute samples for samples specified in the SAP

^bAdditional samples not specified in the SAP

^cTAL B or C without Rad.

^dTAL B or C with Full Rad., metals, and cyanide only

^eTAL B or C with Full Rad. only

^fTAL B or C without volatile organic compounds (VOCs)

^gTAL B or D without total organic carbon (TOC)

^hUnfiltered metals and Full Rad. only

ⁱTotal uranium, thorium, and radium

^jVOCs, semivolatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs), and pesticides only

^kSVOCs, PCBs, and pesticides only

^lFull Rad., VOCs, metals, and cyanide only

^mVOCs only

ⁿMetals only

^oTotal uranium, total thorium, isotopic uranium, and isotopic thorium

^pPCBs and pesticides only

TABLE D-2A
LIME SLUDGE PONDS
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SURFACE SOIL
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>METALS</u>								
LSP-SS-03	114467	0 - .5	01-MAY-93	Barium	97.600	J	88.500	mg/kg
LSP-SS-03	114467	0 - .5	01-MAY-93	Beryllium	1.400	-	.600	mg/kg
LSP-SS-03	114467	0 - .5	01-MAY-93	Cadmium	1.100	-	.770	mg/kg
LSP-SS-03	114467	0 - .5	01-MAY-93	Calcium	20100.000	J	5296.781	mg/kg
LSP-SS-03	114467	0 - .5	01-MAY-93	Copper	25.400	-	15.700	mg/kg
LSP-SS-03	114467	0 - .5	01-MAY-93	Potassium	1470.000	J	1349.530	mg/kg
LSP-SS-03	114467	0 - .5	01-MAY-93	Sodium	90.100	-	55.145	mg/kg
LSP-SS-03	114467	0 - .5	01-MAY-93	Magnesium	9050.000	-	1460.000	mg/kg
LSP-SS-04	114474	0 - .5	02-MAY-93	Barium	99.600	J	88.500	mg/kg
LSP-SS-04	114474	0 - .5	02-MAY-93	Beryllium	1.300	-	.600	mg/kg
LSP-SS-04	114474	0 - .5	02-MAY-93	Calcium	22100.000	J	5296.781	mg/kg
LSP-SS-04	114474	0 - .5	02-MAY-93	Copper	19.900	-	15.700	mg/kg
LSP-SS-04	114474	0 - .5	02-MAY-93	Sodium	98.900	-	55.145	mg/kg
LSP-SS-04	114474	0 - .5	02-MAY-93	Magnesium	8160.000	-	1460.000	mg/kg
LSP-SS-04	114474	0 - .5	02-MAY-93	Cadmium	1.200	-	.770	mg/kg
LSP-SS-05	114485	0 - .5	03-MAY-93	Calcium	347000.000	J	5296.781	mg/kg
LSP-SS-05	114485	0 - .5	03-MAY-93	Chromium	20.100	-	17.057	mg/kg
LSP-SS-05	114485	0 - .5	03-MAY-93	Copper	36.000	-	15.700	mg/kg
LSP-SS-05	114485	0 - .5	03-MAY-93	Cyanide	.320	J	.230	mg/kg
LSP-SS-05	114485	0 - .5	03-MAY-93	Magnesium	15600.000	-	1460.000	mg/kg
LSP-SS-05	114485	0 - .5	03-MAY-93	Sodium	222.000	-	55.145	mg/kg
LSP-SS-05	114485	0 - .5	03-MAY-93	Silicon	3200.000	J	1914.313	mg/kg
LSP-SS-06	114487	0 - .5	03-MAY-93	Calcium	312000.000	J	5296.781	mg/kg
LSP-SS-06	114487	0 - .5	03-MAY-93	Copper	36.000	-	15.700	mg/kg
LSP-SS-06	114487	0 - .5	03-MAY-93	Cyanide	.820	J	.230	mg/kg
LSP-SS-06	114487	0 - .5	03-MAY-93	Magnesium	13800.000	-	1460.000	mg/kg
LSP-SS-06	114487	0 - .5	03-MAY-93	Sodium	231.000	-	55.145	mg/kg
LSP-SS-06	114487	0 - .5	03-MAY-93	Silicon	3550.000	J	1914.313	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Barium	98.000	-	88.500	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Beryllium	1.600	-	.600	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Cadmium	.970	-	.770	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Zinc	96.600	-	58.500	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Sodium	131.000	J	55.145	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Potassium	1700.000	J	1349.530	mg/kg

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FEMP-OU02-4 DRAFT
February 18, 1994

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TABLE D-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>METALS (Continued)</u>								
LSP-SS-07	114477	0 - .5	02-MAY-93	Molybdenum	1.600	-	.000	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Magnesium	16900.000	J	1460.000	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Copper	22.000	-	15.700	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Chromium	18.900	-	17.057	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Calcium	52500.000	-	5296.781	mg/kg
LSP-SS-08	114488	0 - .5	03-MAY-93	Barium	97.600	J	88.500	mg/kg
LSP-SS-08	114488	0 - .5	03-MAY-93	Beryllium	1.300	-	.600	mg/kg
LSP-SS-08	114488	0 - .5	03-MAY-93	Cadmium	.960	-	.770	mg/kg
LSP-SS-08	114488	0 - .5	03-MAY-93	Calcium	31100.000	J	5296.781	mg/kg
LSP-SS-08	114488	0 - .5	03-MAY-93	Copper	21.300	-	15.700	mg/kg
LSP-SS-08	114488	0 - .5	03-MAY-93	Sodium	104.000	-	55.145	mg/kg
LSP-SS-08	114488	0 - .5	03-MAY-93	Magnesium	11400.000	-	1460.000	mg/kg
LSP-SS-09	114598	0 - .5	19-MAY-93	Calcium	279000.000	-	5296.781	mg/kg
LSP-SS-09	114598	0 - .5	19-MAY-93	Sodium	224.000	-	55.145	mg/kg
LSP-SS-09	114598	0 - .5	19-MAY-93	Magnesium	14700.000	-	1460.000	mg/kg
LSP-SS-09	114598	0 - .5	19-MAY-93	Copper	18.500	-	15.700	mg/kg
LSP-SS-10	114881	0 - .5	14-JUN-93	Beryllium	.880	J	.600	mg/kg
LSP-SS-10	114881	0 - .5	14-JUN-93	Cyanide	.440	J	.230	mg/kg
LSP-SS-10	114881	0 - .5	14-JUN-93	Magnesium	19900.000	J	1460.000	mg/kg
LSP-SS-10	114881	0 - .5	14-JUN-93	Copper	16.500	J	15.700	mg/kg
LSP-SS-10	114881	0 - .5	14-JUN-93	Sodium	410.000	J	55.145	mg/kg
LSP-SS-10	114881	0 - .5	14-JUN-93	Calcium	350000.000	J	5296.781	mg/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Beryllium	1.500	-	.600	mg/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Sodium	142.000	J	55.145	mg/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Potassium	1400.000	J	1349.530	mg/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Magnesium	17500.000	-	1460.000	mg/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Copper	20.500	J	15.700	mg/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Calcium	48500.000	-	5296.781	mg/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Cadmium	1.100	-	.770	mg/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Beryllium	1.700	-	.600	mg/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Cadmium	1.100	-	.770	mg/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Copper	19.100	J	15.700	mg/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Potassium	2080.000	J	1349.530	mg/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Magnesium	19600.000	-	1460.000	mg/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Sodium	155.000	J	55.145	mg/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Calcium	67000.000	-	5296.781	mg/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Beryllium	1.800	-	.600	mg/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Cyanide	.690	J	.230	mg/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Lead	52.700	J	29.575	mg/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Silicon	1920.000	-	1914.313	mg/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Sodium	262.000	J	55.145	mg/kg

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TABLE D-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
METALS (Continued)								
LSP-SS-13	114514	0 - .5	05-MAY-93	Magnesium	27500.000	-	1460.000	mg/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Copper	18.600	J	15.700	mg/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Calcium	97300.000	-	5296.781	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Barium	101.000	-	88.500	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Zinc	68.000	J	58.500	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Sodium	222.000	J	55.145	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Potassium	1930.000	J	1349.530	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Magnesium	21500.000	-	1460.000	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Lead	45.900	J	29.575	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Copper	21.500	J	15.700	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Chromium	18.000	-	17.057	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Calcium	83100.000	-	5296.781	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Cadmium	.980	-	.770	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Cyanide	.350	J	.230	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Beryllium	2.000	-	.600	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Calcium	112000.000	-	5296.781	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Zinc	107.000	J	58.500	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Vanadium	39.100	J	33.693	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Sodium	187.000	-	55.145	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Silver	20.800	J	.000	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Chromium	54.200	J	17.057	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Copper	67.100	-	15.700	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Lead	58.300	-	29.575	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Molybdenum	21.000	J	.000	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Magnesium	17400.000	-	1460.000	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Iron	74000.000	-	24788.749	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Calcium	81500.000	-	5296.781	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Chromium	22.900	-	17.057	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Zinc	94.400	-	58.500	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Sodium	184.000	-	55.145	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Silver	7.100	-	.000	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Molybdenum	9.700	-	.000	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Magnesium	16200.000	-	1460.000	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Lead	240.000	-	29.575	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Iron	26200.000	-	24788.749	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Copper	31.800	-	15.700	mg/kg
RADIONUCLIDES								
LSP-SS-03	114467	0 - .5	01-MAY-93	GROSS ALPHA	28.480	J	.000	pCi/g
LSP-SS-03	114467	0 - .5	01-MAY-93	PU-239/240	.037	J	.000	pCi/g
LSP-SS-03	114467	0 - .5	01-MAY-93	TH-230	2.640	-	2.112	pCi/g

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TABLE D-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)								
LSP-SS-03	114467	0 - .5	01-MAY-93	U-235/236	.414	J	.181	pCi/g
LSP-SS-03	114467	0 - .5	01-MAY-93	U-TOTAL	35.800	-	3.240	mg/kg
LSP-SS-03	114467	0 - .5	01-MAY-93	U-238	8.490	J	1.270	pCi/g
LSP-SS-03	114467	0 - .5	01-MAY-93	U-234	8.000	J	1.319	pCi/g
LSP-SS-03	114467	0 - .5	01-MAY-93	RA-228	1.420	-	1.170	pCi/g
LSP-SS-03	114467	0 - .5	01-MAY-93	PU-238	.040	J	.000	pCi/g
LSP-SS-03	114467	0 - .5	01-MAY-93	GROSS BETA	40.640	J	.000	pCi/g
LSP-SS-03	114467	0 - .5	01-MAY-93	NP-237	.160	N	.000	pCi/g
LSP-SS-04	114474	0 - .5	02-MAY-93	GROSS ALPHA	20.600	J	.000	pCi/g
LSP-SS-04	114474	0 - .5	02-MAY-93	U-TOTAL	28.900	-	3.240	mg/kg
LSP-SS-04	114474	0 - .5	02-MAY-93	U-238	6.540	J	1.270	pCi/g
LSP-SS-04	114474	0 - .5	02-MAY-93	U-235/236	.290	J	.181	pCi/g
LSP-SS-04	114474	0 - .5	02-MAY-93	U-234	5.580	J	1.319	pCi/g
LSP-SS-04	114474	0 - .5	02-MAY-93	TH-230	3.000	-	2.112	pCi/g
LSP-SS-04	114474	0 - .5	02-MAY-93	RA-228	1.350	-	1.170	pCi/g
LSP-SS-04	114474	0 - .5	02-MAY-93	PU-239/240	.052	J	.000	pCi/g
LSP-SS-04	114474	0 - .5	02-MAY-93	PU-238	.051	J	.000	pCi/g
LSP-SS-04	114474	0 - .5	02-MAY-93	NP-237	.041	N	.000	pCi/g
LSP-SS-04	114474	0 - .5	02-MAY-93	GROSS BETA	32.900	J	.000	pCi/g
LSP-SS-05	114485	0 - .5	03-MAY-93	GROSS ALPHA	12.900	J	.000	pCi/g
LSP-SS-05	114485	0 - .5	03-MAY-93	NP-237	.590	N	.000	pCi/g
LSP-SS-05	114485	0 - .5	03-MAY-93	PU-238	.662	-	.000	pCi/g
LSP-SS-05	114485	0 - .5	03-MAY-93	U-TOTAL	20.500	-	3.240	mg/kg
LSP-SS-05	114485	0 - .5	03-MAY-93	U-238	6.670	J	1.270	pCi/g
LSP-SS-05	114485	0 - .5	03-MAY-93	U-235/236	.335	J	.181	pCi/g
LSP-SS-05	114485	0 - .5	03-MAY-93	U-234	6.090	J	1.319	pCi/g
LSP-SS-05	114485	0 - .5	03-MAY-93	PU-239/240	.200	J	.000	pCi/g
LSP-SS-05	114485	0 - .5	03-MAY-93	GROSS BETA	17.600	J	.000	pCi/g
LSP-SS-06	114487	0 - .5	03-MAY-93	GROSS BETA	7.740	J	.000	pCi/g
LSP-SS-06	114487	0 - .5	03-MAY-93	U-TOTAL	14.300	J	3.240	mg/kg
LSP-SS-06	114487	0 - .5	03-MAY-93	U-238	2.120	J	1.270	pCi/g
LSP-SS-06	114487	0 - .5	03-MAY-93	NP-237	.050	N	.000	pCi/g
LSP-SS-06	114487	0 - .5	03-MAY-93	U-234	2.440	J	1.319	pCi/g
LSP-SS-06	114487	0 - .5	03-MAY-93	PU-239/240	.030	J	.000	pCi/g
LSP-SS-06	114487	0 - .5	03-MAY-93	PU-238	.240	J	.000	pCi/g
LSP-SS-07	114477	0 - .5	02-MAY-93	GROSS ALPHA	99.650	-	.000	pCi/g
LSP-SS-07	114477	0 - .5	02-MAY-93	GROSS BETA	42.740	-	.000	pCi/g
LSP-SS-07	114477	0 - .5	02-MAY-93	U-TOTAL	14.500	-	3.240	mg/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	U-238	4.640	-	1.270	pCi/g
LSP-SS-07	114477	0 - .5	02-MAY-93	U-234	4.070	-	1.319	pCi/g
LSP-SS-07	114477	0 - .5	02-MAY-93	TH-230	44.800	-	2.112	pCi/g

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TABLE D-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)								
LSP-SS-07	114477	0 - .5	02-MAY-93	RA-228	1.470	-	1.170	pCi/g
LSP-SS-07	114477	0 - .5	02-MAY-93	RA-226	2.450	-	1.528	pCi/g
LSP-SS-07	114477	0 - .5	02-MAY-93	PU-239/240	.042	J	.000	pCi/g
LSP-SS-07	114477	0 - .5	02-MAY-93	PU-238	.057	J	.000	pCi/g
LSP-SS-07	114477	0 - .5	02-MAY-93	NP-237	.096	N	.000	pCi/g
LSP-SS-08	114488	0 - .5	03-MAY-93	GROSS ALPHA	23.600	J	.000	pCi/g
LSP-SS-08	114488	0 - .5	03-MAY-93	U-TOTAL	27.000	-	3.240	mg/kg
LSP-SS-08	114488	0 - .5	03-MAY-93	U-238	6.690	J	1.270	pCi/g
LSP-SS-08	114488	0 - .5	03-MAY-93	U-235/236	.420	J	.181	pCi/g
LSP-SS-08	114488	0 - .5	03-MAY-93	U-234	5.900	J	1.319	pCi/g
LSP-SS-08	114488	0 - .5	03-MAY-93	PU-239/240	.051	J	.000	pCi/g
LSP-SS-08	114488	0 - .5	03-MAY-93	PU-238	.040	J	.000	pCi/g
LSP-SS-08	114488	0 - .5	03-MAY-93	GROSS BETA	34.700	J	.000	pCi/g
LSP-SS-08	114488	0 - .5	03-MAY-93	TH-230	2.400	-	2.112	pCi/g
LSP-SS-08	114488	0 - .5	03-MAY-93	NP-237	.040	N	.000	pCi/g
LSP-SS-09	114598	0 - .5	19-MAY-93	GROSS BETA	7.980	J	.000	pCi/g
LSP-SS-09	114598	0 - .5	19-MAY-93	NP-237	.040	N	.000	pCi/g
LSP-SS-09	114598	0 - .5	19-MAY-93	U-TOTAL	4.260	J	3.240	mg/kg
LSP-SS-10	114881	0 - .5	14-JUN-93	GROSS ALPHA	20.300	J	.000	pCi/g
LSP-SS-10	114881	0 - .5	14-JUN-93	NP-237	.161	N	.000	pCi/g
LSP-SS-10	114881	0 - .5	14-JUN-93	GROSS BETA	29.900	J	.000	pCi/g
LSP-SS-11	114498	0 - .5	04-MAY-93	GROSS ALPHA	24.500	-	.000	pCi/g
LSP-SS-11	114498	0 - .5	04-MAY-93	SR-90	.508	J	.000	pCi/g
LSP-SS-11	114498	0 - .5	04-MAY-93	U-234	7.710	J	1.319	pCi/g
LSP-SS-11	114498	0 - .5	04-MAY-93	U-238	9.380	J	1.270	pCi/g
LSP-SS-11	114498	0 - .5	04-MAY-93	U-TOTAL	29.000	-	3.240	mg/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	U-235/236	.377	J	.181	pCi/g
LSP-SS-11	114498	0 - .5	04-MAY-93	TH-230	3.590	J	2.112	pCi/g
LSP-SS-11	114498	0 - .5	04-MAY-93	PU-239/240	.049	J	.000	pCi/g
LSP-SS-11	114498	0 - .5	04-MAY-93	PU-238	.070	J	.000	pCi/g
LSP-SS-11	114498	0 - .5	04-MAY-93	NP-237	.143	N	.000	pCi/g
LSP-SS-11	114498	0 - .5	04-MAY-93	GROSS BETA	31.400	-	.000	pCi/g
LSP-SS-12	114501	0 - .5	04-MAY-93	GROSS ALPHA	41.000	-	.000	pCi/g
LSP-SS-12	114501	0 - .5	04-MAY-93	U-TOTAL	25.700	-	3.240	mg/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	U-238	9.540	J	1.270	pCi/g
LSP-SS-12	114501	0 - .5	04-MAY-93	U-235/236	.348	J	.181	pCi/g
LSP-SS-12	114501	0 - .5	04-MAY-93	U-234	7.870	J	1.319	pCi/g
LSP-SS-12	114501	0 - .5	04-MAY-93	TH-230	6.010	J	2.112	pCi/g
LSP-SS-12	114501	0 - .5	04-MAY-93	PU-239/240	.040	J	.000	pCi/g
LSP-SS-12	114501	0 - .5	04-MAY-93	PU-238	.064	J	.000	pCi/g
LSP-SS-12	114501	0 - .5	04-MAY-93	NP-237	.284	N	.000	pCi/g

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TABLE D-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)								
LSP-SS-12	114501	0 - .5	04-MAY-93	GROSS BETA	36.500	-	.000	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	CS-137	.890	-	.849	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	GROSS BETA	106.000	-	.000	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	RA-228	2.920	-	1.170	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	TH-230	44.800	J	2.112	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	TH-228	2.910	J	1.519	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	U-TOTAL	175.000	-	3.240	mg/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	U-238	56.400	J	1.270	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	U-235/236	1.450	J	.181	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	U-234	22.700	J	1.319	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	TH-TOTAL	25.100	J	10.700	mg/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	TH-232	2.750	J	1.469	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	RA-226	3.470	-	1.528	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	PU-239/240	.119	J	.000	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	PU-238	.242	J	.000	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	NP-237	.720	N	.000	pCi/g
LSP-SS-13	114514	0 - .5	05-MAY-93	GROSS ALPHA	145.000	-	.000	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	GROSS ALPHA	131.000	-	.000	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	GROSS BETA	108.000	-	.000	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	U-TOTAL	244.000	-	3.240	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	U-238	84.000	J	1.270	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	U-235/236	1.830	J	.181	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	U-234	26.500	J	1.319	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	TH-TOTAL	22.300	J	10.700	mg/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	TH-230	40.900	J	2.112	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	TH-228	2.580	J	1.519	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	SR-90	.785	J	.000	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	RA-228	2.850	-	1.170	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	RA-226	3.160	-	1.528	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	PU-239/240	.122	J	.000	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	PU-238	.256	J	.000	pCi/g
LSP-SS-14	114516	0 - .5	05-MAY-93	NP-237	.676	N	.000	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	GROSS ALPHA	78.200	J	.000	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	GROSS BETA	77.100	J	.000	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	NP-237	.160	N	.000	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	RA-226	3.150	-	1.528	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	U-TOTAL	51.600	J	3.240	mg/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	U-238	20.400	-	1.270	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	U-235/236	1.313	-	.181	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	U-234	19.500	-	1.319	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	TH-230	9.790	-	2.112	pCi/g

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TABLE D-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)								
LSP-TR-01	114589	0 - .5	16-MAY-93	TH-228	1.750	-	1.519	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	TC-99	1.050	J	.000	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	RA-228	2.000	-	1.170	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	PU-239/240	.470	J	.000	pCi/g
LSP-TR-01	114589	0 - .5	16-MAY-93	PU-238	.069	J	.000	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	GROSS ALPHA	93.500	J	.000	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	U-234	13.400	-	1.319	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	TH-230	16.230	-	2.112	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	U-TOTAL	45.000	J	3.240	mg/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	U-238	14.800	-	1.270	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	U-235/236	.770	-	.181	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	TH-228	1.540	-	1.519	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	TC-99	1.790	J	.000	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	RA-228	1.800	-	1.170	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	RA-226	3.480	-	1.528	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	GROSS BETA	57.100	J	.000	pCi/g
LSP-TR-02	114591	0 - .5	16-MAY-93	NP-237	.210	N	.000	pCi/g
VOLATILE ORGANICS								
LSP-SS-12	114501	0 - .5	04-MAY-93	Acetone	2.000	J	.000	ug/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Toluene	4.000	J	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Toluene	7.000	J	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Toluene	17.000	-	.000	ug/kg
SEMITRIVOLATILE ORGANICS								
LSP-SS-03	114467	0 - .5	01-MAY-93	bis(2-Ethylhexyl) phthalate	240.000	J	.000	ug/kg
LSP-SS-04	114474	0 - .5	02-MAY-93	bis(2-Ethylhexyl) phthalate	10000.000	-	.000	ug/kg
LSP-SS-05	114485	0 - .5	03-MAY-93	bis(2-Ethylhexyl) phthalate	78.000	J	.000	ug/kg
LSP-SS-06	114487	0 - .5	03-MAY-93	bis(2-Ethylhexyl) phthalate	220.000	J	.000	ug/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	Di-n-octyl phthalate	87.000	J	.000	ug/kg
LSP-SS-07	114477	0 - .5	02-MAY-93	bis(2-Ethylhexyl) phthalate	1700.000	-	.000	ug/kg
LSP-SS-08	114488	0 - .5	03-MAY-93	bis(2-Ethylhexyl) phthalate	96.000	J	.000	ug/kg
LSP-SS-09	114598	0 - .5	19-MAY-93	Di-n-butyl phthalate	120.000	J	.000	ug/kg
LSP-SS-09	114598	0 - .5	19-MAY-93	bis(2-Ethylhexyl) phthalate	390.000	J	.000	ug/kg
LSP-SS-10	114881	0 - .5	14-JUN-93	bis(2-Ethylhexyl) phthalate	350.000	J	.000	ug/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Anthracene	1.000	J	.000	ug/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Benz(a)pyrene	1.000	J	.000	ug/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Chrysene	2.000	J	.000	ug/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Fluoranthene	3.000	J	.000	ug/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Pyrene	3.000	J	.000	ug/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Phenanthrene	1.000	J	.000	ug/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Benzo(b)fluoranthene	2.000	J	.000	ug/kg

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TABLE D-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>SEMI-VOLATILE ORGANICS (Continued)</u>								
LSP-SS-11	114498	0 - .5	04-MAY-93	Benzo(k)fluoranthene	2.000	J	.000	ug/kg
LSP-SS-11	114498	0 - .5	04-MAY-93	Benzo(a)anthracene	1.000	J	.000	ug/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Chrysene	43.000	J	.000	ug/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Fluoranthene	74.000	J	.000	ug/kg
LSP-SS-12	114501	0 - .5	04-MAY-93	Pyrene	61.000	J	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Anthracene	120.000	J	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Pyrene	1100.000	-	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Phenanthrene	640.000	-	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Indeno(1,2,3-cd)pyrene	580.000	J	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Fluoranthene	1300.000	-	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Dibenzo(a,h)anthracene	240.000	J	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Di-n-butyl phthalate	42.000	J	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Chrysene	720.000	-	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Carbazole	71.000	J	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Benzo(k)fluoranthene	660.000	-	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Benzo(b)fluoranthene	680.000	-	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Benzo(a)pyrene	820.000	-	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Benzo(a)anthracene	630.000	-	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Anthracene	240.000	J	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Pyrene	1900.000	-	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Phenanthrene	1600.000	-	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Indeno(1,2,3-cd)pyrene	720.000	J	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Fluorene	79.000	J	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Fluoranthene	2100.000	-	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Dibenzofuran	42.000	J	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Dibenzo(a,h)anthracene	320.000	J	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Chrysene	1100.000	-	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Carbazole	140.000	J	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Benzo(k)fluoranthene	800.000	-	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Benzo(g,h,i)perylene	630.000	-	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Benzo(b)fluoranthene	1000.000	-	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Benzo(a)anthracene	910.000	-	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Benzo(a)pyrene	1100.000	-	.000	ug/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Benzo(b)fluoranthene	55.000	J	.000	ug/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Pyrene	64.000	J	.000	ug/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Fluoranthene	77.000	J	.000	ug/kg
LSP-TR-01	114589	0 - .5	16-MAY-93	Chrysene	57.000	J	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Anthracene	56.000	J	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Benzo(b)fluoranthene	500.000	-	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Benzo(a)pyrene	350.000	J	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Benzo(a)anthracene	610.000	-	.000	ug/kg

TABLE D-2A
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>SEMIVOLATILE ORGANICS (Continued)</u>								
LSP-TR-02	114591	0 - .5	16-MAY-93	Benzo(k)fluoranthene	450.000	-	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Indeno(1,2,3-cd)pyrene	210.000	J	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Fluoranthene	1300.000	-	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Pyrene	1000.000	-	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Phenanthrene	250.000	J	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Dibenzo(a,h)anthracene	110.000	J	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Chrysene	660.000	-	.000	ug/kg
LSP-TR-02	114591	0 - .5	16-MAY-93	Benzo(g,h,i)perylene	170.000	J	.000	ug/kg
<u>PESTICIDES/PCBS</u>								
LSP-SS-12	114501	0 - .5	04-MAY-93	Aroclor-1254	43.000	-	.000	ug/kg
LSP-SS-13	114514	0 - .5	05-MAY-93	Aroclor-1254	590.000	-	.000	ug/kg
LSP-SS-14	114516	0 - .5	05-MAY-93	Aroclor-1254	90.000	-	.000	ug/kg

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TABLE D-2B
LIME SLUDGE PONDS
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SUBSURFACE SOIL
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
METALS								
LIME	067902	- 2	06-NOV-91	Antimony	20.000	-	.000	mg/kg
LIME	067902	- 2	06-NOV-91	Beryllium	.650	J	.620	mg/kg
LIME	067902	- 2	06-NOV-91	Cadmium	2.500	J	.910	mg/kg
LIME	067902	- 2	06-NOV-91	Calcium	339000.000	J	150000.000	mg/kg
LIME	067902	- 2	06-NOV-91	Cyanide	1.700	J	.170	mg/kg
LIME	067902	- 2	06-NOV-91	Silicon	3220.000	-	1069.496	mg/kg
LIME	067902	- 2	06-NOV-91	Sodium	327.000	-	227.947	mg/kg
LIME	067902	- 2	06-NOV-91	Silver	21.700	J	.000	mg/kg
LIME	067902	- 2	06-NOV-91	Molybdenum	5.700	J	.270	mg/kg
LIME	067902	- 2	06-NOV-91	Chromium	28.100	J	20.953	mg/kg
LIME	067904	- 2	06-NOV-91	Antimony	22.100	J	.000	mg/kg
LIME	067904	- 2	06-NOV-91	Cadmium	4.000	J	.910	mg/kg
LIME	067904	- 2	06-NOV-91	Calcium	323000.000	J	150000.000	mg/kg
LIME	067904	- 2	06-NOV-91	Copper	20.500	J	20.230	mg/kg
LIME	067904	- 2	06-NOV-91	Silicon	5920.000	J	1069.496	mg/kg
LIME	067904	- 2	06-NOV-91	Sodium	599.000	J	227.947	mg/kg
LIME	067904	- 2	06-NOV-91	Thallium	.510	J	.490	mg/kg
LIME	067904	- 2	06-NOV-91	Silver	22.000	J	.000	mg/kg
LIME	067904	- 2	06-NOV-91	Molybdenum	8.200	J	.270	mg/kg
LIME	067904	- 2	06-NOV-91	Chromium	28.200	J	20.953	mg/kg
LIME	067904	- 2	06-NOV-91	Beryllium	.760	J	.620	mg/kg
RADIOMUCLIDES								
1041	008448	0 - 1.5	10-APR-88	TH-230	3.800	-	1.897	pCi/g
1041	008448	0 - 1.5	10-APR-88	TH-232	1.500	-	1.269	pCi/g
1041	008448	0 - 1.5	10-APR-88	U-234	3.800	J	1.034	pCi/g
1041	008448	0 - 1.5	10-APR-88	U-238	5.900	J	1.122	pCi/g
2042	008869	3 - 4.5	11-APR-88	SR-90	6.000	J	.560	pCi/g
2042	008869	3 - 4.5	11-APR-88	TH-230	2.300	J	1.897	pCi/g
2042	008869	3 - 4.5	11-APR-88	TH-232	1.300	J	1.269	pCi/g
LIME	067902	- 2	06-NOV-91	TH-228	1.460	J	1.341	pCi/g
LIME	067904	- 2	06-NOV-91	U-234	1.570	J	1.034	pCi/g
LIME	067904	- 2	06-NOV-91	U-TOTAL	5.490	-	2.540	mg/kg
LIME	067904	- 2	06-NOV-91	U-238	1.330	-	1.122	pCi/g

TABLE D-2B
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
VOLATILE ORGANICS								
LIME	067902	- 2	06-NOV-91	2-Hexanone	2.000	J	.000	ug/kg

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TABLE D-2C
LIME SLUDGE PONDS
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND IN SUBSURFACE SOIL
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND	UNITS
METALS									
1956	114857	0 - 4	08-JUN-93	Arsenic	11.200	J		9.704	mg/kg
1956	114857	0 - 4	08-JUN-93	Beryllium	.720	J		.62	mg/kg
1956	114857	0 - 4	08-JUN-93	Copper	29.800	J		20.23	mg/kg
1956	114857	0 - 4	08-JUN-93	Calcium	269000.000	J		150000	mg/kg
1956	114857	0 - 4	08-JUN-93	Cyanide	.300	J		.17	mg/kg
1956	114857	0 - 4	08-JUN-93	Lead	104.000	J		15.78	mg/kg
1956	114857	0 - 4	08-JUN-93	Silicon	5680.000	J		1069.496	mg/kg
1956	114857	0 - 4	08-JUN-93	Sodium	671.000	J		227.947	mg/kg
1956	114857	0 - 4	08-JUN-93	Molybdenum	3.200	J		.27	mg/kg
1956	114859	6 - 7	08-JUN-93	Barium	135.000	-		121.064	mg/kg
1956	114859	6 - 7	08-JUN-93	Cadmium	1.500	-		.91	mg/kg
1956	114859	6 - 7	08-JUN-93	Cobalt	20.000	-		15.929	mg/kg
1956	114859	6 - 7	08-JUN-93	Beryllium	.790	-		.62	mg/kg
1956	114859	6 - 7	08-JUN-93	Zinc	79.800	J		73.158	mg/kg
1956	114859	6 - 7	08-JUN-93	Sodium	444.000	-		227.947	mg/kg
1956	114859	6 - 7	08-JUN-93	Silicon	1800.000	J		1069.496	mg/kg
1956	114859	6 - 7	08-JUN-93	Potassium	2050.000	-		2007.519	mg/kg
1956	114859	6 - 7	08-JUN-93	Nickel	36.300	-		34.747	mg/kg
1956	114859	6 - 7	08-JUN-93	Manganese	1360.000	-		1045.407	mg/kg
1956	114859	6 - 7	08-JUN-93	Copper	36.600	-		20.23	mg/kg
1957	114835	.5 - 2	07-JUN-93	Copper	25.000	-		20.23	mg/kg
1957	114835	.5 - 2	07-JUN-93	Mercury	.440	J		.29	mg/kg
1957	114835	.5 - 2	07-JUN-93	Sodium	1620.000	J		227.947	mg/kg
1957	114838	4 - 5	07-JUN-93	Arsenic	14.600	-		9.704	mg/kg
1957	114838	4 - 5	07-JUN-93	Zinc	73.200	J		73.158	mg/kg
1957	114838	4 - 5	07-JUN-93	Beryllium	.850	-		.62	mg/kg
1957	114838	4 - 5	07-JUN-93	Lead	17.300	-		15.78	mg/kg
1957	114838	4 - 5	07-JUN-93	Silicon	1640.000	J		1069.496	mg/kg
1957	114838	4 - 5	07-JUN-93	Sodium	503.000	-		227.947	mg/kg
1957	114838	4 - 5	07-JUN-93	Copper	25.100	-		20.23	mg/kg
1957	114838	4 - 5	07-JUN-93	Cobalt	16.900	-		15.929	mg/kg
1958	114821	.5 - 2.5	06-JUN-93	Antimony	23.200	-		0	mg/kg
1958	114821	.5 - 2.5	06-JUN-93	Cyanide	.250	-		.17	mg/kg
1958	114821	.5 - 2.5	06-JUN-93	Sodium	345.000	-		227.947	mg/kg
1958	114821	.5 - 2.5	06-JUN-93	Silicon	7220.000	J		1069.496	mg/kg

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TABLE D-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
<u>METALS (Continued)</u>								
1958	114821	.5 - 2.5	06-JUN-93	Mercury	2.300	J	.29	mg/kg
1958	114821	.5 - 2.5	06-JUN-93	Calcium	353000.000	-	150000	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Aluminum	17700.000	-	16277.291	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Arsenic	13.800	-	9.704	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Copper	28.300	-	20.23	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Vanadium	40.300	-	38.088	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Sodium	373.000	-	227.947	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Zinc	84.100	J	73.158	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Silicon	2500.000	J	1069.496	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Lead	17.600	-	15.78	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Iron	36400.000	-	31188.164	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Cobalt	17.600	-	15.929	mg/kg
1958	114823	4.5 - 5	06-JUN-93	Barium	130.000	-	121.064	mg/kg
1959	114812	3 - 5	05-JUN-93	Aluminum	19700.000	J	16277.291	mg/kg
1959	114812	3 - 5	05-JUN-93	Barium	144.000	J	121.064	mg/kg
1959	114812	3 - 5	05-JUN-93	Vanadium	42.200	J	38.088	mg/kg
1959	114812	3 - 5	05-JUN-93	Sodium	308.000	J	227.947	mg/kg
1959	114812	3 - 5	05-JUN-93	Silicon	3810.000	J	1069.496	mg/kg
1959	114812	3 - 5	05-JUN-93	Potassium	3010.000	J	2007.519	mg/kg
1959	114812	3 - 5	05-JUN-93	Nickel	46.700	J	34.747	mg/kg
1959	114812	3 - 5	05-JUN-93	Iron	48100.000	J	31188.164	mg/kg
1959	114812	3 - 5	05-JUN-93	Copper	44.600	J	20.23	mg/kg
1959	114812	3 - 5	05-JUN-93	Cobalt	30.200	J	15.929	mg/kg
1959	114812	3 - 5	05-JUN-93	Chromium	21.100	J	20.953	mg/kg
1959	114812	3 - 5	05-JUN-93	Beryllium	1.500	J	.62	mg/kg
1959	114812	3 - 5	05-JUN-93	Zinc	122.000	J	73.158	mg/kg
1959	114812	3 - 5	05-JUN-93	Antimony	29.200	J	0	mg/kg
1959	114814	8 - 8.5	05-JUN-93	Calcium	180000.000	-	150000	mg/kg
1959	114814	8 - 8.5	05-JUN-93	Silicon	4230.000	J	1069.496	mg/kg
1959	114814	8 - 8.5	05-JUN-93	Sodium	306.000	-	227.947	mg/kg
1959	114815	11 - 13.5	05-JUN-93	Potassium	3170.000	-	2007.519	mg/kg
1959	114815	11 - 13.5	05-JUN-93	Silicon	4060.000	J	1069.496	mg/kg
1959	114815	11 - 13.5	05-JUN-93	Sodium	249.000	-	227.947	mg/kg
1960	114734	5 - 6	27-MAY-93	Calcium	254000.000	-	150000	mg/kg
1960	114734	5 - 6	27-MAY-93	Sodium	253.000	-	227.947	mg/kg
1960	114737	13 - 13.5	28-MAY-93	Molybdenum	2.800	J	.27	mg/kg
1960	114737	13 - 13.5	28-MAY-93	Silver	2.500	J	0	mg/kg
1961	114743	12 - 13	01-JUN-93	Copper	20.300	-	20.23	mg/kg
1961	114743	12 - 13	01-JUN-93	Potassium	2500.000	-	2007.519	mg/kg
1961	114743	12 - 13	01-JUN-93	Silicon	1230.000	J	1069.496	mg/kg
1961	114743	12 - 13	01-JUN-93	Silver	5.800	-	0	mg/kg
1961	114743	12 - 13	01-JUN-93	Molybdenum	6.700	-	.27	mg/kg

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TABLE D-2C
 (Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL	RESULTS	QUAL	BACKGROUND	UNITS
<u>METALS (Continued)</u>									
1961	114745	2 - 4	01-JUN-93	Calcium	328000.000	J	150000	mg/kg	
1961	114745	2 - 4	01-JUN-93	Sodium	232.000	J	227.947	mg/kg	
1961	114745	2 - 4	01-JUN-93	Silicon	5940.000	J	1069.496	mg/kg	
1962	114605	4.5 - 7	20-MAY-93	Calcium	270000.000	-	150000	mg/kg	
1962	114605	4.5 - 7	20-MAY-93	Silicon	3950.000	-	1069.496	mg/kg	
1962	114607	12.5 - 14	25-MAY-93	Molybdenum	2.500	J	.27	mg/kg	
1962	114607	12.5 - 14	25-MAY-93	Selenium	.520	-	0	mg/kg	
1963	114762	2 - 4	03-JUN-93	Calcium	289000.000	-	150000	mg/kg	
1963	114762	2 - 4	03-JUN-93	Sodium	228.000	-	227.947	mg/kg	
1963	114762	2 - 4	03-JUN-93	Silicon	3390.000	J	1069.496	mg/kg	
1963	114766	13.5 - 15.5	03-JUN-93	Molybdenum	3.800	-	.27	mg/kg	
1963	114766	13.5 - 15.5	03-JUN-93	Silver	2.900	-	0	mg/kg	
1963	114766	13.5 - 15.5	03-JUN-93	Selenium	.550	-	0	mg/kg	
1963	114874	17 - 18	11-JUN-93	Beryllium	.680	-	.62	mg/kg	
1963	114874	17 - 18	11-JUN-93	Silver	3.900	-	0	mg/kg	
1963	114874	17 - 18	11-JUN-93	Molybdenum	5.200	-	.27	mg/kg	
LSP-SB-01	114564	.5 - 1	05-MAY-93	Sodium	263.000	-	227.947	mg/kg	
LSP-SB-02	114508	.5 - 1	05-MAY-93	Aluminum	17600.000	-	16277.291	mg/kg	
LSP-SB-02	114508	.5 - 1	05-MAY-93	Cadmium	1.600	-	.91	mg/kg	
LSP-SB-02	114508	.5 - 1	05-MAY-93	Barium	129.000	-	121.064	mg/kg	
LSP-SB-02	114508	.5 - 1	05-MAY-93	Chromium	22.100	-	20.953	mg/kg	
LSP-SB-02	114508	.5 - 1	05-MAY-93	Copper	24.500	J	20.23	mg/kg	
LSP-SB-02	114508	.5 - 1	05-MAY-93	Beryllium	1.800	-	.62	mg/kg	
LSP-SB-03	114510	.5 - 1	05-MAY-93	Aluminum	18000.000	-	16277.291	mg/kg	
LSP-SB-03	114510	.5 - 1	05-MAY-93	Barium	123.000	-	121.064	mg/kg	
LSP-SB-03	114510	.5 - 1	05-MAY-93	Beryllium	1.800	-	.62	mg/kg	
LSP-SB-03	114510	.5 - 1	05-MAY-93	Lead	18.000	J	15.78	mg/kg	
LSP-SB-03	114510	.5 - 1	05-MAY-93	Copper	20.400	J	20.23	mg/kg	
LSP-SB-03	114510	.5 - 1	05-MAY-93	Cadmium	1.300	-	.91	mg/kg	
LSP-SB-04	114570	.5 - 1	06-MAY-93	Beryllium	.880	-	.62	mg/kg	
LSP-SB-04	114570	.5 - 1	06-MAY-93	Cadmium	1.100	-	.91	mg/kg	
LSP-SB-04	114570	.5 - 1	06-MAY-93	Copper	31.900	J	20.23	mg/kg	
LSP-SB-05	114600	.5 - 1	10-MAY-93	Beryllium	.790	-	.62	mg/kg	
LSP-SB-05	114600	.5 - 1	10-MAY-93	Cadmium	1.100	-	.91	mg/kg	
LSP-SB-05	114600	.5 - 1	10-MAY-93	Silicon	1070.000	J	1069.496	mg/kg	
LSP-SB-05	114600	.5 - 1	10-MAY-93	Potassium	2320.000	J	2007.519	mg/kg	
LSP-SB-05	114600	.5 - 1	10-MAY-93	Copper	37.600	J	20.23	mg/kg	
LSP-SB-06	114602	.5 - 1	10-MAY-93	Barium	166.000	J	121.064	mg/kg	
LSP-SB-06	114602	.5 - 1	10-MAY-93	Silicon	1130.000	J	1069.496	mg/kg	
LSP-SB-06	114602	.5 - 1	10-MAY-93	Selenium	.260	-	0	mg/kg	
LSP-SB-06	114602	.5 - 1	10-MAY-93	Cadmium	1.600	-	.91	mg/kg	
LSP-SB-06	114602	.5 - 1	10-MAY-93	Beryllium	.960	-	.62	mg/kg	

0653

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TABLE D-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND	UNITS
<u>METALS (Continued)</u>								
LSP-SB-06	114602	.5 - 1	10-MAY-93	Cobalt	16.200	-	15.929	mg/kg
LSP-SB-06	114602	.5 - 1	10-MAY-93	Copper	29.500	J	20.23	mg/kg
LSP-SB-07	114576	.5 - 1	06-MAY-93	Cadmium	1.000	-	.91	mg/kg
LSP-SB-07	114576	.5 - 1	06-MAY-93	Copper	24.300	J	20.23	mg/kg
LSP-SB-07	114576	.5 - 1	06-MAY-93	Selenium	.290	-	0	mg/kg
LSP-SB-07	114576	.5 - 1	06-MAY-93	Silicon	1120.000	J	1069.496	mg/kg
LSP-SS-03	114469	-	01-MAY-93	Beryllium	1.400	-	.62	mg/kg
LSP-SS-03	114469	-	01-MAY-93	Cadmium	1.300	-	.91	mg/kg
LSP-SS-03	114469	-	01-MAY-93	Copper	23.900	-	20.23	mg/kg
LSP-SS-04	114476	.5 - 1	02-MAY-93	Beryllium	1.600	-	.62	mg/kg
LSP-SS-04	114476	.5 - 1	02-MAY-93	Cadmium	1.500	-	.91	mg/kg
LSP-SS-04	114476	.5 - 1	02-MAY-93	Copper	21.300	-	20.23	mg/kg
LSP-SS-07	114479	.5 - 1	02-MAY-93	Beryllium	1.500	-	.62	mg/kg
LSP-SS-07	114479	.5 - 1	02-MAY-93	Molybdenum	1.400	-	.27	mg/kg
LSP-SS-07	114479	.5 - 1	02-MAY-93	Cadmium	.920	-	.91	mg/kg
LSP-SS-07	114479	.5 - 1	02-MAY-93	Lead	16.600	J	15.78	mg/kg
LSP-SS-08	114490	.5 - 1	03-MAY-93	Barium	125.000	J	121.064	mg/kg
LSP-SS-08	114490	.5 - 1	03-MAY-93	Copper	24.000	-	20.23	mg/kg
LSP-SS-08	114490	.5 - 1	03-MAY-93	Cadmium	1.100	-	.91	mg/kg
LSP-SS-08	114490	.5 - 1	03-MAY-93	Beryllium	2.100	-	.62	mg/kg
LSP-SS-11	114500	.5 - 1	04-MAY-93	Beryllium	1.600	-	.62	mg/kg
LSP-SS-11	114500	.5 - 1	04-MAY-93	Cadmium	1.000	-	.91	mg/kg
LSP-SS-11	114500	.5 - 1	04-MAY-93	Copper	21.400	J	20.23	mg/kg
LSP-SS-12	114503	.5 - 1	04-MAY-93	Beryllium	1.800	-	.62	mg/kg
LSP-SS-12	114503	.5 - 1	04-MAY-93	Cadmium	1.300	-	.91	mg/kg
LSP/K65	114776	0 - 6	07-JUN-93	Antimony	21.800	J	0	mg/kg
LSP/K65	114776	0 - 6	07-JUN-93	Molybdenum	1.600	-	.27	mg/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	Aluminum	18600.000	-	16277.291	mg/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	Zinc	80.200	-	73.158	mg/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	Vanadium	42.100	-	38.088	mg/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	Silver	7.800	-	0	mg/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	Silicon	1310.000	J	1069.496	mg/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	Potassium	2150.000	-	2007.519	mg/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	Molybdenum	8.900	-	.27	mg/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	Copper	25.100	-	20.23	mg/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	Beryllium	1.000	-	.62	mg/kg
<u>RADIONUCLIDES</u>								
1956	114857	0 - 4	08-JUN-93	CS-137	.088	J	0	pCi/g
1956	114857	0 - 4	08-JUN-93	NP-237	.086	N	0	pCi/g
1956	114857	0 - 4	08-JUN-93	PU-238	.536	J	0	pCi/g
1956	114857	0 - 4	08-JUN-93	GROSS BETA	16.690	-	0	pCi/g

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0534

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TABLE D-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND UNITS
RADIOMUCLIDES (Continued)								
1956	114857	0 - 4	08-JUN-93	U-TOTAL	16.800	J	2.54	mg/kg
1956	114857	0 - 4	08-JUN-93	U-238	3.170	J	1.122	pCi/g
1956	114857	0 - 4	08-JUN-93	U-234	3.370	J	1.034	pCi/g
1956	114857	0 - 4	08-JUN-93	TC-99	.890	J	0	pCi/g
1956	114857	0 - 4	08-JUN-93	PU-239/240	.046	J	0	pCi/g
1956	114857	0 - 4	08-JUN-93	GROSS ALPHA	10.690	J	0	pCi/g
1956	114859	6 - 7	08-JUN-93	GROSS BETA	20.500	-	0	pCi/g
1956	114859	6 - 7	08-JUN-93	PU-239/240	.040	J	0	pCi/g
1956	114859	6 - 7	08-JUN-93	U-TOTAL	13.700	J	2.54	mg/kg
1956	114859	6 - 7	08-JUN-93	PU-238	.107	J	0	pCi/g
1957	114835	.5 - 2	07-JUN-93	CS-137	.060	J	0	pCi/g
1957	114835	.5 - 2	07-JUN-93	U-TOTAL	9.730	-	2.54	mg/kg
1957	114835	.5 - 2	07-JUN-93	PU-239/240	.035	J	0	pCi/g
1957	114835	.5 - 2	07-JUN-93	PU-238	.060	J	0	pCi/g
1957	114835	.5 - 2	07-JUN-93	NP-237	.130	N	0	pCi/g
1957	114835	.5 - 2	07-JUN-93	U-238	2.840	-	1.122	pCi/g
1957	114835	.5 - 2	07-JUN-93	U-234	2.440	-	1.034	pCi/g
1957	114835	.5 - 2	07-JUN-93	GROSS BETA	18.700	-	0	pCi/g
1957	114835	.5 - 2	07-JUN-93	GROSS ALPHA	11.900	J	0	pCi/g
1957	114838	4 - 5	07-JUN-93	GROSS ALPHA	12.150	J	0	pCi/g
1957	114838	4 - 5	07-JUN-93	U-TOTAL	11.100	J	2.54	mg/kg
1957	114838	4 - 5	07-JUN-93	U-238	1.140	J	1.122	pCi/g
1957	114838	4 - 5	07-JUN-93	U-234	1.150	J	1.034	pCi/g
1957	114838	4 - 5	07-JUN-93	TH-TOTAL	12.300	J	9.47	mg/kg
1957	114838	4 - 5	07-JUN-93	RA-228	1.440	-	1.325	pCi/g
1957	114838	4 - 5	07-JUN-93	PU-239/240	.035	J	0	pCi/g
1957	114838	4 - 5	07-JUN-93	PU-238	.065	J	0	pCi/g
1957	114838	4 - 5	07-JUN-93	NP-237	.077	N	0	pCi/g
1957	114838	4 - 5	07-JUN-93	GROSS BETA	27.700	-	0	pCi/g
1958	114821	.5 - 2.5	06-JUN-93	U-234	1.910	-	1.034	pCi/g
1958	114821	.5 - 2.5	06-JUN-93	U-TOTAL	14.000	-	2.54	mg/kg
1958	114821	.5 - 2.5	06-JUN-93	U-238	1.840	-	1.122	pCi/g
1958	114821	.5 - 2.5	06-JUN-93	U-235/236	.144	J	.142	pCi/g
1958	114823	4.5 - 5	06-JUN-93	GROSS BETA	27.400	-	0	pCi/g
1958	114823	4.5 - 5	06-JUN-93	U-TOTAL	13.100	-	2.54	mg/kg
1958	114823	4.5 - 5	06-JUN-93	U-238	1.370	-	1.122	pCi/g
1958	114823	4.5 - 5	06-JUN-93	U-234	1.290	-	1.034	pCi/g
1958	114823	4.5 - 5	06-JUN-93	TH-TOTAL	11.000	J	9.47	mg/kg
1959	114812	3 - 5	05-JUN-93	PU-238	.133	J	0	pCi/g
1959	114812	3 - 5	05-JUN-93	PU-239/240	.133	J	0	pCi/g
1959	114812	3 - 5	05-JUN-93	U-TOTAL	15.000	-	2.54	mg/kg
1959	114812	3 - 5	05-JUN-93	U-238	2.470	-	1.122	pCi/g

TABLE D-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
<u>RADIOMUCLIDES (Continued)</u>								
1959	114812	3 - 5	05-JUN-93	U-235/236	.199 J		.142	pCi/g
1959	114812	3 - 5	05-JUN-93	U-234	2.550 -		1.034	pCi/g
1959	114814	8 - 8.5	05-JUN-93	GROSS ALPHA	12.900 -		0	pCi/g
1959	114814	8 - 8.5	05-JUN-93	GROSS BETA	23.700 -		0	pCi/g
1959	114814	8 - 8.5	05-JUN-93	NP-237	.071 N		0	pCi/g
1959	114814	8 - 8.5	05-JUN-93	U-TOTAL	12.300 -		2.54	mg/kg
1959	114814	8 - 8.5	05-JUN-93	U-238	1.150 -		1.122	pCi/g
1959	114814	8 - 8.5	05-JUN-93	U-234	1.080 -		1.034	pCi/g
1959	114814	8 - 8.5	05-JUN-93	TH-TOTAL	11.500 J		9.47	mg/kg
1959	114814	8 - 8.5	05-JUN-93	PU-239/240	.016 J		0	pCi/g
1959	114814	8 - 8.5	05-JUN-93	PU-238	.039 J		0	pCi/g
1959	114815	11 - 13.5	05-JUN-93	GROSS BETA	25.300 -		0	pCi/g
1959	114815	11 - 13.5	05-JUN-93	NP-237	.054 N		0	pCi/g
1959	114815	11 - 13.5	05-JUN-93	PU-238	.016 J		0	pCi/g
1959	114815	11 - 13.5	05-JUN-93	U-234	1.140 -		1.034	pCi/g
1959	114815	11 - 13.5	05-JUN-93	U-TOTAL	11.300 -		2.54	mg/kg
1959	114815	11 - 13.5	05-JUN-93	U-238	1.150 -		1.122	pCi/g
1959	114815	11 - 13.5	05-JUN-93	PU-239/240	.020 J		0	pCi/g
1960	114734	5 - 6	27-MAY-93	GROSS BETA	7.200 J		0	pCi/g
1960	114734	5 - 6	27-MAY-93	PU-238	.104 J		0	pCi/g
1960	114734	5 - 6	27-MAY-93	U-TOTAL	3.720 -		2.54	mg/kg
1960	114734	5 - 6	27-MAY-93	U-238	1.590 -		1.122	pCi/g
1960	114734	5 - 6	27-MAY-93	U-234	1.470 -		1.034	pCi/g
1960	114734	5 - 6	27-MAY-93	PU-239/240	.044 J		0	pCi/g
1960	114737	13 - 13.5	28-MAY-93	GROSS ALPHA	11.900 -		0	pCi/g
1960	114737	13 - 13.5	28-MAY-93	GROSS BETA	16.200 -		0	pCi/g
1960	114737	13 - 13.5	28-MAY-93	U-TOTAL	12.300 -		2.54	mg/kg
1960	114737	13 - 13.5	28-MAY-93	TH-230	4.510 -		1.897	pCi/g
1960	114737	13 - 13.5	28-MAY-93	PU-238	.020 J		0	pCi/g
1960	114737	13 - 13.5	28-MAY-93	NP-237	.050 N		0	pCi/g
1961	114743	12 - 13	01-JUN-93	GROSS BETA	14.600 -		0	pCi/g
1961	114743	12 - 13	01-JUN-93	U-234	1.050 -		1.034	pCi/g
1961	114743	12 - 13	01-JUN-93	U-TOTAL	14.300 -		2.54	mg/kg
1961	114743	12 - 13	01-JUN-93	U-238	1.170 -		1.122	pCi/g
1961	114745	2 - 4	01-JUN-93	GROSS BETA	7.800 -		0	pCi/g
1961	114745	2 - 4	01-JUN-93	TH-230	2.700 J		1.897	pCi/g
1961	114745	2 - 4	01-JUN-93	U-234	1.850 -		1.034	pCi/g
1961	114745	2 - 4	01-JUN-93	U-238	1.860 -		1.122	pCi/g
1961	114745	2 - 4	01-JUN-93	U-TOTAL	13.500 -		2.54	mg/kg
1961	114745	2 - 4	01-JUN-93	U-235/236	.960 -		.142	pCi/g
1962	114605	4.5 - 7	20-MAY-93	CS-137	.029 J		0	pCi/g
1962	114605	4.5 - 7	20-MAY-93	GROSS ALPHA	9.730 J		0	pCi/g

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TABLE D-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
1962	114605	4.5 - 7	20-MAY-93	U-TOTAL	6.760 -	2.54	mg/kg
1962	114605	4.5 - 7	20-MAY-93	U-238	3.330 J	1.122	pCi/g
1962	114605	4.5 - 7	20-MAY-93	U-235/236	.233 J	.142	pCi/g
1962	114605	4.5 - 7	20-MAY-93	U-234	3.310 -	1.034	pCi/g
1962	114605	4.5 - 7	20-MAY-93	TH-230	3.060 -	1.897	pCi/g
1962	114605	4.5 - 7	20-MAY-93	PU-238	.144 J	0	pCi/g
1962	114605	4.5 - 7	20-MAY-93	GROSS BETA	6.430 J	0	pCi/g
1962	114607	12.5 - 14	25-MAY-93	GROSS ALPHA	9.740 J	0	pCi/g
1962	114607	12.5 - 14	25-MAY-93	TH-230	2.470 -	1.897	pCi/g
1962	114607	12.5 - 14	25-MAY-93	PU-238	.043 J	0	pCi/g
1962	114607	12.5 - 14	25-MAY-93	GROSS BETA	15.970 J	0	pCi/g
1963	114762	2 - 4	03-JUN-93	U-TOTAL	10.600 -	2.54	mg/kg
1963	114766	13.5 - 15.5	03-JUN-93	GROSS BETA	13.400 -	0	pCi/g
1963	114766	13.5 - 15.5	03-JUN-93	U-TOTAL	8.610 -	2.54	mg/kg
1963	114766	13.5 - 15.5	03-JUN-93	NP-237	.050 N	0	pCi/g
1963	114874	17 - 18	11-JUN-93	NP-237	.129 N	0	pCi/g
1963	114874	17 - 18	11-JUN-93	U-TOTAL	4.010 -	2.54	mg/kg
LSP-SB-01	114564	.5 - 1	05-MAY-93	GROSS ALPHA	14.900 J	0	pCi/g
LSP-SB-01	114564	.5 - 1	05-MAY-93	NP-237	.110 N	0	pCi/g
LSP-SB-01	114564	.5 - 1	05-MAY-93	U-238	1.990 -	1.122	pCi/g
LSP-SB-01	114564	.5 - 1	05-MAY-93	U-TOTAL	6.910 -	2.54	mg/kg
LSP-SB-01	114564	.5 - 1	05-MAY-93	GROSS BETA	25.800 J	0	pCi/g
LSP-SB-01	114564	.5 - 1	05-MAY-93	PU-238	.030 J	0	pCi/g
LSP-SB-01	114564	.5 - 1	05-MAY-93	PU-239/240	.030 J	0	pCi/g
LSP-SB-01	114564	.5 - 1	05-MAY-93	U-234	1.600 -	1.034	pCi/g
LSP-SB-02	114508	.5 - 1	05-MAY-93	GROSS ALPHA	21.900 -	0	pCi/g
LSP-SB-02	114508	.5 - 1	05-MAY-93	U-TOTAL	15.100 -	2.54	mg/kg
LSP-SB-02	114508	.5 - 1	05-MAY-93	U-238	3.930 J	1.122	pCi/g
LSP-SB-02	114508	.5 - 1	05-MAY-93	U-235/236	.203 J	.142	pCi/g
LSP-SB-02	114508	.5 - 1	05-MAY-93	GROSS BETA	32.300 -	0	pCi/g
LSP-SB-02	114508	.5 - 1	05-MAY-93	PU-239/240	.042 J	0	pCi/g
LSP-SB-02	114508	.5 - 1	05-MAY-93	SR-90	.959 J	.56	pCi/g
LSP-SB-02	114508	.5 - 1	05-MAY-93	U-234	3.710 J	1.034	pCi/g
LSP-SB-02	114508	.5 - 1	05-MAY-93	PU-238	.042 J	0	pCi/g
LSP-SB-02	114508	.5 - 1	05-MAY-93	NP-237	.111 N	0	pCi/g
LSP-SB-03	114510	.5 - 1	05-MAY-93	CS-137	.094 J	0	pCi/g
LSP-SB-03	114510	.5 - 1	05-MAY-93	U-TOTAL	23.500 -	2.54	mg/kg
LSP-SB-03	114510	.5 - 1	05-MAY-93	U-238	8.750 J	1.122	pCi/g
LSP-SB-03	114510	.5 - 1	05-MAY-93	U-235/236	.204 J	.142	pCi/g
LSP-SB-03	114510	.5 - 1	05-MAY-93	U-234	4.280 J	1.034	pCi/g
LSP-SB-03	114510	.5 - 1	05-MAY-93	TH-230	1.940 J	1.897	pCi/g
LSP-SB-03	114510	.5 - 1	05-MAY-93	SR-90	.841 J	.56	pCi/g

TABLE D-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
LSP-SB-03	114510	.5 - 1	05-MAY-93	PU-239/240	.013 J		0 pCi/g
LSP-SB-03	114510	.5 - 1	05-MAY-93	NP-237	.044 N		0 pCi/g
LSP-SB-03	114510	.5 - 1	05-MAY-93	GROSS BETA	29.800 -		0 pCi/g
LSP-SB-03	114510	.5 - 1	05-MAY-93	GROSS ALPHA	22.700 -		0 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	CS-137	.100 J		0 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	PU-238	.110 J		0 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	U-TOTAL	25.200 J		2.54 mg/kg
LSP-SB-04	114570	.5 - 1	06-MAY-93	U-238	6.470 J		1.122 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	U-235/236	.260 J		.142 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	U-234	5.450 J		1.034 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	TH-230	4.740 J		1.897 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	RA-228	1.430 -		1.325 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	PU-239/240	.090 J		0 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	NP-237	.480 N		0 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	GROSS BETA	39.000 J		0 pCi/g
LSP-SB-04	114570	.5 - 1	06-MAY-93	GROSS ALPHA	27.100 J		0 pCi/g
LSP-SB-05	114600	.5 - 1	10-MAY-93	GROSS ALPHA	16.600 J		0 pCi/g
LSP-SB-05	114600	.5 - 1	10-MAY-93	NP-237	.289 J		0 pCi/g
LSP-SB-05	114600	.5 - 1	10-MAY-93	U-TOTAL	19.100 -		2.54 mg/kg
LSP-SB-05	114600	.5 - 1	10-MAY-93	U-238	3.780 -		1.122 pCi/g
LSP-SB-05	114600	.5 - 1	10-MAY-93	U-235/236	.181 J		.142 pCi/g
LSP-SB-05	114600	.5 - 1	10-MAY-93	U-234	3.460 -		1.034 pCi/g
LSP-SB-05	114600	.5 - 1	10-MAY-93	TH-230	5.020 -		1.897 pCi/g
LSP-SB-05	114600	.5 - 1	10-MAY-93	GROSS BETA	25.500 J		0 pCi/g
LSP-SB-06	114602	.5 - 1	10-MAY-93	GROSS ALPHA	16.400 J		0 pCi/g
LSP-SB-06	114602	.5 - 1	10-MAY-93	U-TOTAL	18.500 -		2.54 mg/kg
LSP-SB-06	114602	.5 - 1	10-MAY-93	U-238	2.750 -		1.122 pCi/g
LSP-SB-06	114602	.5 - 1	10-MAY-93	U-235/236	.143 J		.142 pCi/g
LSP-SB-06	114602	.5 - 1	10-MAY-93	U-234	2.670 -		1.034 pCi/g
LSP-SB-06	114602	.5 - 1	10-MAY-93	NP-237	.354 J		0 pCi/g
LSP-SB-06	114602	.5 - 1	10-MAY-93	GROSS BETA	20.100 J		0 pCi/g
LSP-SB-07	114576	.5 - 1	06-MAY-93	CS-137	.116 -		0 pCi/g
LSP-SB-07	114576	.5 - 1	06-MAY-93	TH-TOTAL	9.840 -		9.47 mg/kg
LSP-SB-07	114576	.5 - 1	06-MAY-93	U-TOTAL	26.400 -		2.54 mg/kg
LSP-SB-07	114576	.5 - 1	06-MAY-93	U-238	5.090 -		1.122 pCi/g
LSP-SB-07	114576	.5 - 1	06-MAY-93	U-235/236	.220 J		.142 pCi/g
LSP-SB-07	114576	.5 - 1	06-MAY-93	U-234	4.490 -		1.034 pCi/g
LSP-SB-07	114576	.5 - 1	06-MAY-93	TH-230	5.190 -		1.897 pCi/g
LSP-SB-07	114576	.5 - 1	06-MAY-93	PU-239/240	.089 J		0 pCi/g
LSP-SB-07	114576	.5 - 1	06-MAY-93	GROSS ALPHA	32.500 J		0 pCi/g
LSP-SB-07	114576	.5 - 1	06-MAY-93	NP-237	.541 N		0 pCi/g
LSP-SB-07	114576	.5 - 1	06-MAY-93	PU-238	.098 J		0 pCi/g

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0658

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TABLE D-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL QUAL	BACKGROUND UNITS
RADIONUCLIDES (Continued)							
LSP-SB-07	114576	.5 - 1	06-MAY-93	GROSS BETA	27.200 J		0 pCi/g
LSP-SS-03	114469	-	01-MAY-93	CS-137	.170 J		0 pCi/g
LSP-SS-03	114469	-	01-MAY-93	U-TOTAL	24.000 -		2.54 mg/kg
LSP-SS-03	114469	-	01-MAY-93	U-238	4.690 J		1.122 pCi/g
LSP-SS-03	114469	-	01-MAY-93	U-235/236	.200 J		.142 pCi/g
LSP-SS-03	114469	-	01-MAY-93	U-234	4.400 J		1.034 pCi/g
LSP-SS-03	114469	-	01-MAY-93	TH-230	2.000 -		1.897 pCi/g
LSP-SS-03	114469	-	01-MAY-93	RA-228	1.330 -		1.325 pCi/g
LSP-SS-03	114469	-	01-MAY-93	PU-239/240	.039 J		0 pCi/g
LSP-SS-03	114469	-	01-MAY-93	PU-238	.060 J		0 pCi/g
LSP-SS-03	114469	-	01-MAY-93	NP-237	.080 N		0 pCi/g
LSP-SS-03	114469	-	01-MAY-93	GROSS BETA	29.280 J		0 pCi/g
LSP-SS-03	114469	-	01-MAY-93	GROSS ALPHA	23.440 J		0 pCi/g
LSP-SS-04	114476	.5 - 1	02-MAY-93	GROSS ALPHA	24.200 J		0 pCi/g
LSP-SS-04	114476	.5 - 1	02-MAY-93	GROSS BETA	27.100 J		0 pCi/g
LSP-SS-04	114476	.5 - 1	02-MAY-93	NP-237	.030 N		0 pCi/g
LSP-SS-04	114476	.5 - 1	02-MAY-93	U-238	4.520 J		1.122 pCi/g
LSP-SS-04	114476	.5 - 1	02-MAY-93	U-TOTAL	20.700 -		2.54 mg/kg
LSP-SS-04	114476	.5 - 1	02-MAY-93	U-235/236	.220 J		.142 pCi/g
LSP-SS-04	114476	.5 - 1	02-MAY-93	U-234	3.830 J		1.034 pCi/g
LSP-SS-04	114476	.5 - 1	02-MAY-93	PU-239/240	.051 J		0 pCi/g
LSP-SS-04	114476	.5 - 1	02-MAY-93	PU-238	.082 J		0 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	CS-137	.130 J		0 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	TH-230	32.200 -		1.897 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	SR-90	.860 J		.56 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	RA-228	1.370 -		1.325 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	RA-226	2.360 -		1.47 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	PU-239/240	.043 J		0 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	PU-238	.067 J		0 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	GROSS ALPHA	61.400 -		0 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	NP-237	.190 N		0 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	U-TOTAL	17.600 -		2.54 mg/kg
LSP-SS-07	114479	.5 - 1	02-MAY-93	U-238	5.610 -		1.122 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	U-235/236	.209 J		.142 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	U-234	4.500 -		1.034 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	TH-TOTAL	12.200 -		9.47 mg/kg
LSP-SS-07	114479	.5 - 1	02-MAY-93	TH-232	1.340 -		1.269 pCi/g
LSP-SS-07	114479	.5 - 1	02-MAY-93	GROSS BETA	43.360 -		0 pCi/g
LSP-SS-08	114490	.5 - 1	03-MAY-93	GROSS ALPHA	23.700 J		0 pCi/g
LSP-SS-08	114490	.5 - 1	03-MAY-93	GROSS BETA	27.300 J		0 pCi/g
LSP-SS-08	114490	.5 - 1	03-MAY-93	U-TOTAL	22.700 -		2.54 mg/kg
LSP-SS-08	114490	.5 - 1	03-MAY-93	U-238	4.680 J		1.122 pCi/g

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TABLE D-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND	UNITS
RADIONUCLIDES (Continued)								
LSP-SS-08	114490	.5 - 1	03-MAY-93	U-235/236	.290 J		.142	pCi/g
LSP-SS-08	114490	.5 - 1	03-MAY-93	U-234	3.750 J		1.034	pCi/g
LSP-SS-08	114490	.5 - 1	03-MAY-93	PU-238	.040 J		0	pCi/g
LSP-SS-08	114490	.5 - 1	03-MAY-93	TH-230	2.900 -		1.897	pCi/g
LSP-SS-08	114490	.5 - 1	03-MAY-93	RA-228	1.330 -		1.325	pCi/g
LSP-SS-08	114490	.5 - 1	03-MAY-93	PU-239/240	.011 J		0	pCi/g
LSP-SS-08	114490	.5 - 1	03-MAY-93	NP-237	.040 N		0	pCi/g
LSP-SS-11	114500	.5 - 1	04-MAY-93	GROSS ALPHA	24.000 -		0	pCi/g
LSP-SS-11	114500	.5 - 1	04-MAY-93	U-TOTAL	11.200 -		2.54	mg/kg
LSP-SS-11	114500	.5 - 1	04-MAY-93	U-238	4.050 J		1.122	pCi/g
LSP-SS-11	114500	.5 - 1	04-MAY-93	U-235/236	.204 J		.142	pCi/g
LSP-SS-11	114500	.5 - 1	04-MAY-93	U-234	3.660 J		1.034	pCi/g
LSP-SS-11	114500	.5 - 1	04-MAY-93	PU-239/240	.020 J		0	pCi/g
LSP-SS-11	114500	.5 - 1	04-MAY-93	PU-238	.079 J		0	pCi/g
LSP-SS-11	114500	.5 - 1	04-MAY-93	NP-237	.128 N		0	pCi/g
LSP-SS-11	114500	.5 - 1	04-MAY-93	GROSS BETA	35.000 -		0	pCi/g
LSP-SS-12	114503	.5 - 1	04-MAY-93	CS-137	.130 J		0	pCi/g
LSP-SS-12	114503	.5 - 1	04-MAY-93	GROSS ALPHA	25.900 -		0	pCi/g
LSP-SS-12	114503	.5 - 1	04-MAY-93	GROSS BETA	33.200 -		0	pCi/g
LSP-SS-12	114503	.5 - 1	04-MAY-93	NP-237	.045 N		0	pCi/g
LSP-SS-12	114503	.5 - 1	04-MAY-93	U-TOTAL	13.700 -		2.54	mg/kg
LSP-SS-12	114503	.5 - 1	04-MAY-93	U-238	4.100 J		1.122	pCi/g
LSP-SS-12	114503	.5 - 1	04-MAY-93	U-235/236	.197 J		.142	pCi/g
LSP-SS-12	114503	.5 - 1	04-MAY-93	U-234	3.580 J		1.034	pCi/g
LSP-SS-12	114503	.5 - 1	04-MAY-93	TH-230	2.020 J		1.897	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	CS-137	.092 J		0	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	GROSS BETA	29.800 -		0	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	PU-238	.036 J		0	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	RA-226	2.320 -		1.47	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	TH-230	20.300 J		1.897	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	U-234	5.330 J		1.034	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	TH-TOTAL	13.000 J		9.47	mg/kg
LSP/K65	114776	0 - 6	07-JUN-93	U-TOTAL	24.800 J		2.54	mg/kg
LSP/K65	114776	0 - 6	07-JUN-93	U-238	5.500 J		1.122	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	U-235/236	.260 J		.142	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	TH-232	1.430 J		1.269	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	TH-228	1.750 J		1.341	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	RA-228	1.720 -		1.325	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	PU-239/240	.046 J		0	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	NP-237	.305 N		0	pCi/g
LSP/K65	114776	0 - 6	07-JUN-93	GROSS ALPHA	36.740 J		0	pCi/g
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	CS-137	.113 J		0	pCi/g

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TABLE D-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	RESULTS	VAL	QUAL	BACKGROUND	UNITS
<u>RADIOMUCLIDES (Continued)</u>									
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	U-TOTAL	11.500	-		2.54	mg/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	U-238	3.910	-		1.122	pCi/g
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	U-235/236	.277	J		.142	pCi/g
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	U-234	3.640	-		1.034	pCi/g
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	TH-230	5.340	-		1.897	pCi/g
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	RA-226	5.930	-		1.47	pCi/g
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	PU-239/240	.050	J		0	pCi/g
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	PU-238	.344	J		0	pCi/g
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	NP-237	.103	N		0	pCi/g
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	GROSS BETA	41.200	J		0	pCi/g
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	GROSS ALPHA	48.100	J		0	pCi/g
<u>VOLATILE ORGANICS</u>									
1956	114857	0 - 4	08-JUN-93	Acetone	11.000	J		0	ug/kg
1956	114859	6 - 7	08-JUN-93	Acetone	21.000	-		0	ug/kg
1957	114838	4 - 5	07-JUN-93	Acetone	6.000	J		0	ug/kg
1958	114821	.5 - 2.5	06-JUN-93	Methylene chloride	31.000	J		0	ug/kg
1959	114812	3 - 5	05-JUN-93	1,1-Dichloroethane	5.000	J		0	ug/kg
1959	114812	3 - 5	05-JUN-93	Acetone	34.000	J		0	ug/kg
1959	114812	3 - 5	05-JUN-93	2-Butanone	5.000	J		0	ug/kg
1959	114814	8 - 8.5	05-JUN-93	2-Butanone	1.000	J		0	ug/kg
1959	114814	8 - 8.5	05-JUN-93	Acetone	7.000	J		0	ug/kg
1960	114737	13 - 13.5	28-MAY-93	Acetone	5.000	J		0	ug/kg
1961	114743	12 - 13	01-JUN-93	Acetone	3.000	J		0	ug/kg
1961	114745	2 - 4	01-JUN-93	Acetone	38.000	-		0	ug/kg
1961	114745	2 - 4	01-JUN-93	Toluene	5.000	J		0	ug/kg
1963	114766	13.5 - 15.5	03-JUN-93	Acetone	5.000	J		0	ug/kg
1963	114879	18 - 18.5	14-JUN-93	2-Butanone	2.000	J		0	ug/kg
1963	114879	18 - 18.5	14-JUN-93	Acetone	10.000	J		0	ug/kg
LSP-SB-06	114602	.5 - 1	10-MAY-93	Toluene	2.000	J		0	ug/kg
LSP-SS-03	114469	-	01-MAY-93	Acetone	12.000	-		0	ug/kg
LSP-SS-04	114476	.5 - 1	02-MAY-93	Toluene	2.000	J		0	ug/kg
LSP-SS-07	114479	.5 - 1	02-MAY-93	Toluene	2.000	J		0	ug/kg
LSP-SS-08	114490	.5 - 1	03-MAY-93	Toluene	11.000	J		0	ug/kg
LSP/K65	114776	0 - 6	07-JUN-93	Toluene	2.000	J		0	ug/kg
<u>SEMITVOLATILE ORGANICS</u>									
1956	114857	0 - 4	08-JUN-93	Anthracene	82.000	J		0	ug/kg
1956	114857	0 - 4	08-JUN-93	bis(2-Ethylhexyl) phthalate	440.000	J		0	ug/kg
1956	114857	0 - 4	08-JUN-93	Phenanthrene	82.000	J		0	ug/kg
1956	114859	6 - 7	08-JUN-93	Benzoic acid	160.000	J		0	ug/kg
1956	114859	6 - 7	08-JUN-93	bis(2-Ethylhexyl) phthalate	88.000	J		0	ug/kg

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TABLE D-2C
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>SEMIVOLATILE ORGANICS (Continued)</u>							
1956	114859	6 - 7	08-JUN-93	Di-n-butyl phthalate	75.000	J	0 ug/kg
1957	114835	.5 - 2	07-JUN-93	bis(2-Ethylhexyl) phthalate	91.000	J	0 ug/kg
1957	114838	4 - 5	07-JUN-93	Di-n-butyl phthalate	59.000	J	0 ug/kg
1957	114838	4 - 5	07-JUN-93	bis(2-Ethylhexyl) phthalate	410.000	J	0 ug/kg
1958	114821	.5 - 2.5	06-JUN-93	bis(2-Ethylhexyl) phthalate	92.000	J	0 ug/kg
1959	114812	3 - 5	05-JUN-93	Di-n-butyl phthalate	140.000	J	0 ug/kg
1959	114812	3 - 5	05-JUN-93	bis(2-Ethylhexyl) phthalate	260.000	J	0 ug/kg
1959	114814	8 - 8.5	05-JUN-93	Di-n-butyl phthalate	48.000	J	0 ug/kg
1959	114815	11 - 13.5	05-JUN-93	Di-n-butyl phthalate	62.000	J	0 ug/kg
1961	114743	12 - 13	01-JUN-93	Di-n-butyl phthalate	68.000	J	0 ug/kg
1961	114743	12 - 13	01-JUN-93	bis(2-Ethylhexyl) phthalate	78.000	J	0 ug/kg
1961	114745	2 - 4	01-JUN-93	bis(2-Ethylhexyl) phthalate	150.000	J	0 ug/kg
1962	114605	4.5 - 7	20-MAY-93	Di-n-butyl phthalate	72.000	J	0 ug/kg
1962	114607	12.5 - 14	25-MAY-93	Di-n-butyl phthalate	2.000	J	0 ug/kg
1962	114607	12.5 - 14	25-MAY-93	bis(2-Ethylhexyl) phthalate	2.000	J	0 ug/kg
1963	114762	2 - 4	03-JUN-93	bis(2-Ethylhexyl) phthalate	88.000	J	0 ug/kg
1963	114874	17 - 18	11-JUN-93	Benzoic acid	90.000	J	0 ug/kg
1963	114874	17 - 18	11-JUN-93	bis(2-Ethylhexyl) phthalate	93.000	J	0 ug/kg
LSP-SB-01	114564	.5 - 1	05-MAY-93	bis(2-Ethylhexyl) phthalate	360.000	J	0 ug/kg
LSP-SB-02	114508	.5 - 1	05-MAY-93	Fluoranthene	57.000	J	0 ug/kg
LSP-SB-02	114508	.5 - 1	05-MAY-93	Pyrene	51.000	J	0 ug/kg
LSP-SB-07	114576	.5 - 1	06-MAY-93	bis(2-Ethylhexyl) phthalate	220.000	J	0 ug/kg
LSP-SS-03	114469	-	01-MAY-93	bis(2-Ethylhexyl) phthalate	140.000	J	0 ug/kg
LSP-SS-04	114476	.5 - 1	02-MAY-93	bis(2-Ethylhexyl) phthalate	580.000	-	0 ug/kg
LSP-SS-07	114479	.5 - 1	02-MAY-93	bis(2-Ethylhexyl) phthalate	4800.000	-	0 ug/kg
LSP-SS-08	114490	.5 - 1	03-MAY-93	bis(2-Ethylhexyl) phthalate	230.000	J	0 ug/kg
LSP/K65	114776	0 - 6	07-JUN-93	bis(2-Ethylhexyl) phthalate	55.000	J	0 ug/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	N-Nitrosodimethylamine	5.000	J	0 ug/kg
LSP/K65 TRNCH	114767	0 - 6	25-MAY-93	bis(2-Ethylhexyl) phthalate	3.000	J	0 ug/kg

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REMP-OU024 DRAFT
February 18, 1994

TABLE D-2D
LIME SLUDGE PONDS
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN SURFACE WATER
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
METALS								
LIME SLUDG	067900	-	06-NOV-91	Aluminum	UNKN	.099	J	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Antimony	N/A	.037	J	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Boron	UNKN	.211	J	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Barium	UNKN	.042	J	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Chromium	UNKN	.016	-	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Magnesium	UNKN	47.800	-	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Molybdenum	UNKN	.014	J	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Silicon	UNKN	.780	J	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Sodium	UNKN	199.000	-	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Silver	UNKN	.011	J	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Potassium	UNKN	13.200	-	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Manganese	UNKN	.006	-	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Iron	UNKN	.033	J	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Calcium	UNKN	47.900	-	0 mg/L
LIME SLUDG	067900	-	06-NOV-91	Cadmium	UNKN	.007	J	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Aluminum	UNKN	.095	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Calcium	UNKN	43.500	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Iron	UNKN	.023	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Chromium	UNKN	.015	J	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Zinc	UNKN	.008	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Sodium	UNKN	185.000	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Silver	UNKN	.011	J	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Silicon	UNKN	1.040	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Potassium	UNKN	11.400	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Molybdenum	UNKN	.018	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Manganese	UNKN	.114	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Magnesium	UNKN	45.900	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Cadmium	UNKN	.007	-	0 mg/L
LIME SLUDG	067907	-	07-NOV-91	Antimony	UNKN	.033	J	0 mg/L

See footnotes at end of table

TABLE D-2D
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND	UNITS
METALS (Continued)									
LIME SLUDG	067907	-	07-NOV-91	Arsenic	UNKN	.003	-	0	mg/L
LIME SLUDG	067907	-	07-NOV-91	Boron	UNKN	.243	-	0	mg/L
LIME SLUDG	067907	-	07-NOV-91	Barium	UNKN	.033	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Aluminum	N/A	.100	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Iron	N/A	.023	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Magnesium	N/A	33.500	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Lead	N/A	.002	J	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Zinc	N/A	.193	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Sodium	N/A	272.000	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Silicon	N/A	.402	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Potassium	N/A	8.540	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Molybdenum	N/A	.011	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Mercury	N/A	.001	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Manganese	N/A	.008	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Chromium	N/A	.012	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Arsenic	N/A	.004	J	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Barium	N/A	.043	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Calcium	N/A	43.300	-	0	mg/L
LIME SLUDG	067008	-	14-MAY-91	Cadmium	N/A	.009	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Aluminum	N/A	.127	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Barium	N/A	.061	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Boron	N/A	.359	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Cadmium	N/A	.004	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Chromium	N/A	.021	J	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Manganese	N/A	.006	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Magnesium	N/A	24.400	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Silicon	N/A	.520	J	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Sodium	N/A	299.000	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Silver	N/A	.017	J	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Zinc	N/A	.016	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Vanadium	N/A	.010	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Potassium	N/A	11.300	-	0	mg/L
LIME SLUDG	067500	-	29-AUG-91	Calcium	N/A	71.000	-	0	mg/L
RADIONUCLIDES									
LIME SLUDG	067008	-	14-MAY-91	U-238	N/A	1.220	-	0	pCi/L
LIME SLUDG	067008	-	14-MAY-91	U-TOTAL	N/A	6.330	-	0	ug/L

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See footnotes at end of table

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TABLE D-2D
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	VAL RESULTS	QUAL	BACKGROUND UNITS
GENERAL CHEMISTRY								
LIME SLUDG 067500	-		29-AUG-91	Chloride	N/A	519.000	-	0 mg/L
LIME SLUDG 067500	-		29-AUG-91	Total Organic Carbon	N/A	279.000	-	0 mg/L
LIME SLUDG 067500	-		29-AUG-91	Total Organic Nitrogen	N/A	.500	-	0 mg/L
LIME SLUDG 067500	-		29-AUG-91	Phosphorus	N/A	.050	J	0 mg/L
LIME SLUDG 067500	-		29-AUG-91	Nitrate	N/A	6.900	-	0 mg/L
LIME SLUDG 067500	-		29-AUG-91	Fluoride	N/A	.270	-	0 mg/L

^aZero background concentration has been used for surface water. Background data for surface water is not available at this time.

UNKN = Unknown; filtered status could not be determined.

N/A = Not Applicable

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TABLE D-2E
LIME SLUDGE PONDS
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN SURFACE WATER
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>METALS</u>									
LSP-SW-01	114593	-	16-MAY-93	Antimony	UNFL		.005 -		0 mg/L
LSP-SW-01	114593	-	16-MAY-93	Barium	UNFL		.018 -		0 mg/L
LSP-SW-01	114593	-	16-MAY-93	Magnesium	UNFL		17.900 -		0 mg/L
LSP-SW-01	114593	-	16-MAY-93	Calcium	UNFL		17.200 -		0 mg/L
LSP-SW-01	114593	-	16-MAY-93	Potassium	UNFL		3.930 -		0 mg/L
LSP-SW-01	114593	-	16-MAY-93	Sodium	UNFL		40.600 -		0 mg/L
LSP-SW-01	114593	-	16-MAY-93	Silicon	UNFL		.572 -		0 mg/L
LSP-SW-01	114595	-	16-MAY-93	Barium	UNFL	DUP	.016 -		0 mg/L
LSP-SW-01	114595	-	16-MAY-93	Calcium	UNFL	DUP	15.900 -		0 mg/L
LSP-SW-01	114595	-	16-MAY-93	Potassium	UNFL	DUP	3.740 -		0 mg/L
LSP-SW-01	114595	-	16-MAY-93	Silicon	UNFL	DUP	.444 -		0 mg/L
LSP-SW-01	114595	-	16-MAY-93	Sodium	UNFL	DUP	39.400 -		0 mg/L
LSP-SW-01	114595	-	16-MAY-93	Magnesium	UNFL	DUP	17.400 -		0 mg/L
<u>RADIOMUCLIDES</u>									
LSP-SW-01	114593	-	16-MAY-93	GROSS BETA	UNFL		4.220 J		0 pCi/L
LSP-SW-01	114593	-	16-MAY-93	TH-230	UNFL		.210 J		0 pCi/L
LSP-SW-01	114595	-	16-MAY-93	U-TOTAL	UNFL	DUP	.060 J		0 ug/L
<u>SEMITOLATILE ORGANICS</u>									
LSP-SW-01	114593	-	16-MAY-93	bis(2-Ethylhexyl) phthalate	UNFL		2.000 J		0 ug/L
<u>PESTICIDES/PCBs</u>									
LSP-SW-01	114595	-	16-MAY-93	alpha-BHC	UNFL	DUP	.002 J		0 ug/L
LSP-SW-01	114595	-	16-MAY-93	gamma-BHC (Lindane)	UNFL	DUP	.005 J		0 ug/L
<u>GENERAL CHEMISTRY</u>									
LSP-SW-01	114593	-	16-MAY-93	Chloride	UNFL		72.000 -		0 mg/L
LSP-SW-01	114593	-	16-MAY-93	Total Kjeldahl Nitrogen	UNFL		.170 -		0 mg/L
LSP-SW-01	114593	-	16-MAY-93	Total Organic Carbon	UNFL		2.240 -		0 mg/L
LSP-SW-01	114593	-	16-MAY-93	Total Organic Nitrogen	UNFL		.170 -		0 mg/L
LSP-SW-01	114593	-	16-MAY-93	Total Organic Halides	UNFL		.023 J		0 mg/L

See footnotes at end of table

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TABLE D-2E
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND	UNITS
<u>GENERAL CHEMISTRY (Continued)</u>										
LSP-SW-01	114593	-	16-MAY-93	Sulfate	UNFL		39.300	-	0	mg/L
LSP-SW-01	114593	-	16-MAY-93	Fluoride	UNFL		.110	-	0	mg/L
LSP-SW-01	114595	-	16-MAY-93	Chloride	UNFL	DUP	68.600	-	0	mg/L
LSP-SW-01	114595	-	16-MAY-93	Fluoride	UNFL	DUP	.100	-	0	mg/L
LSP-SW-01	114595	-	16-MAY-93	Sulfate	UNFL	DUP	43.000	-	0	mg/L
LSP-SW-01	114595	-	16-MAY-93	Total Kjeldahl Nitrogen	UNFL	DUP	.150	-	0	mg/L
LSP-SW-01	114595	-	16-MAY-93	Total Organic Carbon	UNFL	DUP	2.320	-	0	mg/L
LSP-SW-01	114595	-	16-MAY-93	Total Organic Halides	UNFL	DUP	.023	-	0	mg/L
LSP-SW-01	114595	-	16-MAY-93	Total Organic Nitrogen	UNFL	DUP	.150	-	0	mg/L

^aZero background concentration has been used for surface water. Background data for surface water is not available at this time.

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

DUP = Duplicate Sample

C-2-28

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TABLE D-2F
LIME SLUDGE POND
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND* IN GROUNDWATER - 1000 SERIES
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL QUAL	Background Concentration	UNITS
<u>METALS</u>									
1039	003179	-	11-MAY-88	Calcium	FLTR	274.000	-	125.574	mg/L
1039	003179	-	11-MAY-88	Magnesium	FLTR	109.600	-	49.627	mg/L
1039	003179	-	11-MAY-88	Manganese	FLTR	.986	-	.165	mg/L
1039	003179	-	11-MAY-88	Sodium	FLTR	243.900	-	49.178	mg/L
1039	003491	-	10-AUG-88	Calcium	*F	240.000	-	125.574	mg/L
1039	003491	-	10-AUG-88	Magnesium	*F	100.000	-	49.627	mg/L
1039	003491	-	10-AUG-88	Manganese	*F	.790	-	.165	mg/L
1039	003491	-	10-AUG-88	Sodium	*F	350.000	-	49.178	mg/L
1039	003733	-	20-NOV-88	Calcium	FLTR	186.000	-	125.574	mg/L
1039	003733	-	20-NOV-88	Magnesium	FLTR	71.200	-	49.627	mg/L
1039	003733	-	20-NOV-88	Manganese	FLTR	.643	-	.165	mg/L
1039	003733	-	20-NOV-88	Sodium	FLTR	245.000	-	49.178	mg/L
1039	003928	-	05-FEB-89	Cadmium	FLTR	.010	-	.007	mg/L
1039	003928	-	05-FEB-89	Calcium	FLTR	168.000	-	125.574	mg/L
1039	003928	-	05-FEB-89	Chromium	FLTR	.035	-	.035	mg/L
1039	003928	-	05-FEB-89	Sodium	FLTR	218.000	-	49.178	mg/L
1039	003928	-	05-FEB-89	Manganese	FLTR	.481	-	.165	mg/L
1039	003928	-	05-FEB-89	Magnesium	FLTR	70.000	-	49.627	mg/L
1041	003180	-	11-MAY-88	Calcium	FLTR	172.000	-	125.574	mg/L
1041	003180	-	11-MAY-88	Manganese	FLTR	.614	-	.165	mg/L
1041	003180	-	11-MAY-88	Magnesium	FLTR	70.500	-	49.627	mg/L
1041	003490	-	10-AUG-88	Calcium	*F	150.000	-	125.574	mg/L
1041	003490	-	10-AUG-88	Manganese	*F	.360	-	.165	mg/L
1041	003490	-	10-AUG-88	Magnesium	*F	61.000	-	49.627	mg/L
1041	003732	-	17-NOV-88	Calcium	FLTR	196.000	-	125.574	mg/L
1041	003732	-	17-NOV-88	Molybdenum	FLTR	.030	-	.028	mg/L
1041	003732	-	17-NOV-88	Manganese	FLTR	.670	-	.165	mg/L
1041	003732	-	17-NOV-88	Magnesium	FLTR	72.200	-	49.627	mg/L
1041	003924	-	01-MAR-89	Calcium	FLTR	180.000	-	125.574	mg/L
1041	003924	-	01-MAR-89	Manganese	FLTR	.610	-	.165	mg/L
1041	003924	-	01-MAR-89	Magnesium	FLTR	70.000	-	49.627	mg/L
1042	003182	-	11-MAY-88	Manganese	FLTR	.205	-	.165	mg/L
1042	003416	-	09-AUG-88	Zinc	*F	.140	-	.032	mg/L

See footnotes at end of table

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TABLE D-2F
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL QUAL	Background Concentration	UNITS
RADIONUCLIDES									
1039	003928	-	05-FEB-89	U-238	*U	1.800	-	1.070	pCi/L
1041	003180	-	11-MAY-88	TH-228	*U	1.200	-	1.040	pCi/L
1041	003180	-	11-MAY-88	U-238	*U	2.400	-	1.070	pCi/L
1041	003180	-	11-MAY-88	U-TOTAL	*U	9.000	J	4.000	ug/L
1041	003490	-	10-AUG-88	U-234	*U	2.100	J	1.900	pCi/L
1041	003490	-	10-AUG-88	U-238	*U	1.700	J	1.070	pCi/L
1041	003490	-	10-AUG-88	U-TOTAL	*U	6.000	-	4.000	ug/L
1041	003732	-	17-NOV-88	U-238	*U	2.100	-	1.070	pCi/L
1041	003732	-	17-NOV-88	U-TOTAL	*U	6.000	-	4.000	ug/L
1041	003924	-	01-MAR-89	TH-228	*U	1.100	J	1.040	pCi/L
1041	003924	-	01-MAR-89	U-TOTAL	*U	8.000	-	4.000	ug/L
1041	003924	-	01-MAR-89	U-238	*U	2.400	-	1.070	pCi/L
1042	003182	-	11-MAY-88	U-TOTAL	*U	7.000	J	4.000	ug/L
1042	003416	-	09-AUG-88	U-234	N/A	2.500	-	1.900	pCi/L
1042	003416	-	09-AUG-88	U-238	UNKN	2.200	-	1.070	pCi/L
1042	003416	-	09-AUG-88	U-TOTAL	UNKN	6.000	-	4.000	ug/L
1042	003723	-	17-NOV-88	U-234	*U	3.300	-	1.900	pCi/L
1042	003723	-	17-NOV-88	U-TOTAL	*U	11.000	-	4.000	ug/L
1042	003723	-	17-NOV-88	U-238	*U	3.200	-	1.070	pCi/L
1042	003922	-	01-MAR-89	U-238	*U	9.700	-	1.070	pCi/L
1042	003922	-	01-MAR-89	U-TOTAL	*U	30.000	-	4.000	ug/L
1134	045426	-	18-OCT-89	U-TOTAL	*U	21.000	-	4.000	ug/L
1210	045739	-	22-OCT-89	U-TOTAL	*U	8.400	-	4.000	ug/L
1229	045780	-	23-OCT-89	U-TOTAL	*U	58.000	J	4.000	ug/L
SEMIVOLATILE ORGANICS									
1042	003416	-	09-AUG-88	Phenol	UNFL	50.000	-	.000	ug/L
GENERAL CHEMISTRY									
1039	003179	-	11-MAY-88	Chloride	UNFL	1095.000	-	110.159	mg/L
1039	003491	-	10-AUG-88	Chloride	*U	860.000	-	110.159	mg/L
1039	003491	-	10-AUG-88	Total Kjeldahl Nitrogen	UNFL	21.000	-	.000	mg/L
1039	003491	-	10-AUG-88	Fluoride	UNFL	3.500	-	1.352	mg/L
1039	003733	-	20-NOV-88	Chloride	UNFL	750.000	J	110.159	mg/L
1039	003733	-	20-NOV-88	Total Organic Nitrogen	UNFL	.300	J	.000	mg/L
1039	003733	-	20-NOV-88	Total Kjeldahl Nitrogen	UNFL	.300	J	.000	mg/L
1039	003733	-	20-NOV-88	Sulfate	UNFL	144.000	J	141.894	mg/L
1039	003928	-	05-FEB-89	Chloride	UNFL	700.000	-	110.159	mg/L
1039	003928	-	05-FEB-89	Total Kjeldahl Nitrogen	UNFL	.103	J	.000	mg/L

See footnotes at end of table

TABLE D-2F
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	RESULTS	VAL QUAL	Background Concentration	UNITS
GENERAL CHEMISTRY (Continued)									
1039	003928	-	05-FEB-89	Total Organic Nitrogen	UNFL	.103	J	.000	mg/L
1041	003180	-	11-MAY-88	Chloride	UNFL	495.000	-	110.159	mg/L
1041	003180	-	11-MAY-88	Phosphorus	UNFL	.270	J	.223	mg/L
1041	003490	-	10-AUG-88	Chloride	*U	170.000	-	110.159	mg/L
1041	003490	-	10-AUG-88	Fluoride	UNFL	1.800	-	1.352	mg/L
1041	003732	-	17-NOV-88	Chloride	UNFL	259.000	J	110.159	mg/L
1041	003732	-	17-NOV-88	Total Organic Nitrogen	UNFL	.700	-	.000	mg/L
1041	003732	-	17-NOV-88	Total Kjeldahl Nitrogen	UNFL	.820	J	.000	mg/L
1041	003732	-	17-NOV-88	Phosphorus	UNFL	.536	J	.223	mg/L
1041	003924	-	01-MAR-89	Chloride	UNFL	230.000	-	110.159	mg/L
1042	003416	-	09-AUG-88	Fluoride	UNFL	1.400	-	1.352	mg/L
1042	003723	-	17-NOV-88	Phosphorus	UNFL	.872	J	.223	mg/L
1042	003723	-	17-NOV-88	Sulfate	UNFL	246.000	J	141.894	mg/L
1042	003723	-	17-NOV-88	Total Organic Nitrogen	UNFL	.510	-	.000	mg/L
1042	003723	-	17-NOV-88	Total Kjeldahl Nitrogen	UNFL	.510	J	.000	mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

*F = Filtered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

N/A = Not Applicable

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TABLE D-2G
LIME SLUDGE POND
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER - 1000 SERIES
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND UNITS
METALS									
1039	111990	-	28-APR-93	Manganese	FLTR		.418 -		.165 mg/L
1039	111990	-	28-APR-93	Silicon	FLTR		5.680 -		0 mg/L
1039	111990	-	28-APR-93	Sodium	FLTR		157.000 -		49.178 mg/L
1041	116220	-	05-MAY-93	Aluminum	UNFL		8.600 -		.123 mg/L
1041	116220	-	05-MAY-93	Beryllium	UNFL		.002 -		.0018 mg/L
1041	116220	-	05-MAY-93	Calcium	UNFL		170.000 -		125.574 mg/L
1041	116220	-	05-MAY-93	Cobalt	UNFL		.009 -		0 mg/L
1041	116220	-	05-MAY-93	Iron	UNFL		17.600 -		10.965 mg/L
1041	116220	-	05-MAY-93	Magnesium	UNFL		65.100 -		49.627 mg/L
1041	116220	-	05-MAY-93	Manganese	UNFL		1.210 -		.165 mg/L
1041	116220	-	05-MAY-93	Zinc	UNFL		.064 -		.0317 mg/L
1041	116220	-	05-MAY-93	Vanadium	UNFL		.027 -		.0195 mg/L
1041	116220	-	05-MAY-93	Silicon	UNFL		17.900 -		0 mg/L
1041	116220	-	05-MAY-93	Nickel	UNFL		.029 -		.026 mg/L
1041	116221	-	05-MAY-93	Calcium	FLTR		127.000 -		125.574 mg/L
1041	116221	-	05-MAY-93	Silicon	FLTR		5.370 -		0 mg/L
1041	116221	-	05-MAY-93	Magnesium	FLTR		55.500 -		49.627 mg/L
1041	116221	-	05-MAY-93	Manganese	FLTR		.176 -		.165 mg/L
1042	110889	-	22-APR-93	Calcium	FLTR		138.000 J		125.574 mg/L
1042	110889	-	22-APR-93	Magnesium	FLTR		56.600 J		49.627 mg/L
1042	110889	-	22-APR-93	Silicon	FLTR		5.280 -		0 mg/L
1934	114620	-	13-MAY-93	Magnesium	UNFL		69.100 -		49.627 mg/L
1934	114620	-	13-MAY-93	Silicon	UNFL		6.030 -		0 mg/L
1934	114622	-	13-MAY-93	Aluminum	UNFL	DUP	49.800 -		.123 mg/L
1934	114622	-	13-MAY-93	Zinc	UNFL	DUP	.284 -		.0317 mg/L
1934	114622	-	13-MAY-93	Vanadium	UNFL	DUP	.125 -		.0195 mg/L
1934	114622	-	13-MAY-93	Silicon	UNFL	DUP	71.300 -		0 mg/L
1934	114622	-	13-MAY-93	Nickel	UNFL	DUP	.108 -		.026 mg/L
1934	114622	-	13-MAY-93	Manganese	UNFL	DUP	3.060 -		.165 mg/L
1934	114622	-	13-MAY-93	Magnesium	UNFL	DUP	325.000 -		49.627 mg/L
1934	114622	-	13-MAY-93	Lead	UNFL	DUP	.051 -		.05 mg/L
1934	114622	-	13-MAY-93	Iron	UNFL	DUP	94.800 -		10.965 mg/L

See footnotes at end of table

TABLE D-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	VAL QUAL	VAL BACKGROUND	UNITS
METALS (Continued)										
1934	114622	-	13-MAY-93	Calcium	UNFL	DUP	781.000	-	125.574	mg/L
1934	114622	-	13-MAY-93	Beryllium	UNFL	DUP	.007	-	.0018	mg/L
1934	114622	-	13-MAY-93	Copper	UNFL	DUP	.113	-	.03	mg/L
1934	114622	-	13-MAY-93	Cobalt	UNFL	DUP	.048	-	0	mg/L
1934	114622	-	13-MAY-93	Chromium	UNFL	DUP	.064	-	.0345	mg/L
1937	114617	-	11-MAY-93	Calcium	UNFL		214.000	-	125.574	mg/L
1937	114617	-	11-MAY-93	Sodium	UNFL		146.000	-	49.178	mg/L
1937	114617	-	11-MAY-93	Silicon	UNFL		5.950	-	0	mg/L
1937	114617	-	11-MAY-93	Manganese	UNFL		.612	-	.165	mg/L
1937	114617	-	11-MAY-93	Magnesium	UNFL		82.000	-	49.627	mg/L
1937	114782	-	01-JUN-93	Aluminum	UNFL		15.400	-	.123	mg/L
1937	114782	-	01-JUN-93	Magnesium	UNFL		144.000	-	49.627	mg/L
1937	114782	-	01-JUN-93	Vanadium	UNFL		.038	-	.0195	mg/L
1937	114782	-	01-JUN-93	Zinc	UNFL		.065	J	.0317	mg/L
1937	114782	-	01-JUN-93	Sodium	UNFL		156.000	-	49.178	mg/L
1937	114782	-	01-JUN-93	Silicon	UNFL		31.000	J	0	mg/L
1937	114782	-	01-JUN-93	Iron	UNFL		23.700	-	10.965	mg/L
1937	114782	-	01-JUN-93	Calcium	UNFL		446.000	-	125.574	mg/L
1937	114782	-	01-JUN-93	Manganese	UNFL		1.290	-	.165	mg/L
1937	114782	-	01-JUN-93	Nickel	UNFL		.029	J	.026	mg/L
1940	114784	-	11-JUN-93	Aluminum	UNFL		.786	-	.123	mg/L
1940	114784	-	11-JUN-93	Sodium	UNFL		59.400	-	49.178	mg/L
1940	114784	-	11-JUN-93	Silicon	UNFL		7.900	-	0	mg/L
1940	114784	-	11-JUN-93	Magnesium	UNFL		56.400	-	49.627	mg/L
1940	114784	-	11-JUN-93	Calcium	UNFL		146.000	-	125.574	mg/L
1940	114784	-	11-JUN-93	Manganese	UNFL		.298	-	.165	mg/L
1940	114784	-	11-JUN-93	Nickel	UNFL		.042	-	.026	mg/L
1940	114785	-	11-JUN-93	Aluminum	UNFL		13.100	-	.123	mg/L
1940	114785	-	11-JUN-93	Copper	UNFL		.328	-	.03	mg/L
1940	114785	-	11-JUN-93	Calcium	UNFL		283.000	-	125.574	mg/L
1940	114785	-	11-JUN-93	Zinc	UNFL		.105	-	.0317	mg/L
1940	114785	-	11-JUN-93	Vanadium	UNFL		.029	-	.0195	mg/L
1940	114785	-	11-JUN-93	Sodium	UNFL		60.500	-	49.178	mg/L
1940	114785	-	11-JUN-93	Silicon	UNFL		26.400	-	0	mg/L
1940	114785	-	11-JUN-93	Nickel	UNFL		.028	-	.026	mg/L
1940	114785	-	11-JUN-93	Manganese	UNFL		.815	-	.165	mg/L
1940	114785	-	11-JUN-93	Magnesium	UNFL		104.000	-	49.627	mg/L
1940	114785	-	11-JUN-93	Iron	UNFL		26.400	-	10.965	mg/L

See footnotes at end of table

TABLE D-2G
(Continued)

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SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	RESULTS	VAL QUAL	BACKGROUND UNITS
<u>RADIOMNUCLIDES</u>									
1041	116220	-	05-MAY-93	GROSS BETA	UNFL		15.300 J		0 pCi/L
1041	116220	-	05-MAY-93	TH-232	UNFL		.740 J		0 pCi/L
1041	116220	-	05-MAY-93	U-TOTAL	UNFL		7.800 -		4 ug/L
1041	116220	-	05-MAY-93	U-238	UNFL		3.330 -		1.07 pCi/L
1041	116220	-	05-MAY-93	U-235/236	UNFL		.180 J		0 pCi/L
1041	116220	-	05-MAY-93	U-234	UNFL		3.020 -		1.9 pCi/L
1041	116220	-	05-MAY-93	TH-TOTAL	UNFL		6.830 -		3 ug/L
1041	116221	-	05-MAY-93	U-234	FLTR		2.450 -		1.9 pCi/L
1041	116221	-	05-MAY-93	U-235/236	FLTR		.180 -		0 pCi/L
1041	116221	-	05-MAY-93	U-TOTAL	FLTR		8.300 -		4 ug/L
1041	116221	-	05-MAY-93	U-238	FLTR		2.720 -		1.07 pCi/L
1042	110889	-	22-APR-93	GROSS ALPHA	UNFL		27.120 J		0 pCi/L
1042	110889	-	22-APR-93	U-TOTAL	UNFL		30.400 -		4 ug/L
1042	110889	-	22-APR-93	U-238	UNFL		11.810 J		1.07 pCi/L
1042	110889	-	22-APR-93	SR-90	UNFL		3.450 J		0 pCi/L
1042	110889	-	22-APR-93	U-234	UNFL		11.020 J		1.9 pCi/L
1042	110889	-	22-APR-93	U-235/236	UNFL		.700 J		0 pCi/L
1934	114620	-	13-MAY-93	NP-237	UNFL		.149 N		0 pCi/L
1934	114620	-	13-MAY-93	U-235/236	UNFL		.176 -		0 pCi/L
1934	114620	-	13-MAY-93	U-TOTAL	UNFL		4.770 -		4 ug/L
1934	114620	-	13-MAY-93	U-238	UNFL		1.890 -		1.07 pCi/L
1934	114622	-	13-MAY-93	GROSS ALPHA	UNFL	DUP	23.800 J		0 pCi/L
1934	114622	-	13-MAY-93	U-TOTAL	UNFL	DUP	17.500 -		4 ug/L
1934	114622	-	13-MAY-93	U-238	UNFL	DUP	5.750 -		1.07 pCi/L
1934	114622	-	13-MAY-93	U-235/236	UNFL	DUP	.250 -		0 pCi/L
1934	114622	-	13-MAY-93	U-234	UNFL	DUP	6.690 -		1.9 pCi/L
1934	114622	-	13-MAY-93	TH-TOTAL	UNFL	DUP	23.900 -		3 ug/L
1934	114622	-	13-MAY-93	TH-232	UNFL	DUP	2.600 -		0 pCi/L
1934	114622	-	13-MAY-93	TH-230	UNFL	DUP	6.670 -		2 pCi/L
1934	114622	-	13-MAY-93	TH-228	UNFL	DUP	2.870 -		1.04 pCi/L
1934	114622	-	13-MAY-93	GROSS BETA	UNFL	DUP	31.600 J		0 pCi/L
1934	114622	-	13-MAY-93	RA-226	UNFL	DUP	1.400 -		1 pCi/L
1934	114622	-	13-MAY-93	NP-237	UNFL	DUP	.839 N		0 pCi/L
1937	114617	-	11-MAY-93	TH-230	UNFL		3.040 -		2 pCi/L
1937	114617	-	11-MAY-93	U-TOTAL	UNFL		5.160 -		4 ug/L
1937	114617	-	11-MAY-93	U-238	UNFL		2.130 -		1.07 pCi/L
1937	114617	-	11-MAY-93	U-234	UNFL		2.420 J		1.9 pCi/L
1937	114617	-	11-MAY-93	U-235/236	UNFL		.078 J		0 pCi/L
1937	114782	-	01-JUN-93	GROSS ALPHA	UNFL		42.800 J		0 pCi/L

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FEMP-OU02-4 DRAFT
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See footnotes at end of table

TABLE D-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND	UNITS
<u>RADIOMUCLIDES (Continued)</u>										
1937	114782	-	01-JUN-93	U-TOTAL	UNFL		6.480	-	4	ug/L
1937	114782	-	01-JUN-93	U-238	UNFL		3.190	-	1.07	pCi/L
1937	114782	-	01-JUN-93	U-235/236	UNFL		.165	J	0	pCi/L
1937	114782	-	01-JUN-93	U-234	UNFL		3.170	-	1.9	pCi/L
1937	114782	-	01-JUN-93	TH-TOTAL	UNFL		17.400	-	3	ug/L
1937	114782	-	01-JUN-93	TH-232	UNFL		1.910	-	0	pCi/L
1937	114782	-	01-JUN-93	TH-230	UNFL		2.740	J	2	pCi/L
1937	114782	-	01-JUN-93	TH-228	UNFL		2.370	-	1.04	pCi/L
1940	114784	-	11-JUN-93	NP-237	UNFL		.339	N	0	pCi/L
1940	114784	-	11-JUN-93	U-234	UNFL		3.140	-	1.9	pCi/L
1940	114784	-	11-JUN-93	U-TOTAL	UNFL		6.300	-	4	ug/L
1940	114784	-	11-JUN-93	U-238	UNFL		2.580	-	1.07	pCi/L
1940	114784	-	11-JUN-93	U-235/236	UNFL		.076	J	0	pCi/L
1940	114785	-	11-JUN-93	GROSS BETA	UNFL		20.900	J	0	pCi/L
1940	114785	-	11-JUN-93	U-TOTAL	UNFL		7.620	-	4	ug/L
1940	114785	-	11-JUN-93	U-238	UNFL		3.670	-	1.07	pCi/L
1940	114785	-	11-JUN-93	TH-228	UNFL		1.360	-	1.04	pCi/L
1940	114785	-	11-JUN-93	TH-232	UNFL		.756	J	0	pCi/L
1940	114785	-	11-JUN-93	U-234	UNFL		3.340	-	1.9	,pCi/L
1940	114785	-	11-JUN-93	U-235/236	UNFL		.212	J	0	pCi/L
1940	114785	-	11-JUN-93	TH-TOTAL	UNFL		6.890	-	3	ug/L
1940	114785	-	11-JUN-93	RA-226	UNFL		1.210	J	1	pCi/L
<u>SEMITVOLATILE ORGANICS</u>										
1041	116220	-	05-MAY-93	bis(2-Ethylhexyl) phthalate	UNFL		2.000	J	0	ug/L
1937	114617	-	11-MAY-93	bis(2-Ethylhexyl) phthalate	UNFL		1.000	J	0	ug/L
<u>GENERAL CHEMISTRY</u>										
1039	111990	-	28-APR-93	Chloride	UNFL		360.230	-	110.159	mg/L
1039	111990	-	28-APR-93	Total Organic Nitrogen	UNFL		.130	-	0	mg/L
1039	111990	-	28-APR-93	Total Organic Halides	UNFL		.028	-	0	mg/L
1039	111990	-	28-APR-93	Total Organic Carbon	UNFL		1.220	-	0	mg/L
1039	111990	-	28-APR-93	Total Kjeldahl Nitrogen	UNFL		.130	-	0	mg/L
1041	116220	-	05-MAY-93	Total Kjeldahl Nitrogen	UNFL		.180	-	0	mg/L
1041	116220	-	05-MAY-93	Total Organic Nitrogen	UNFL		.180	-	0	mg/L
1041	116220	-	05-MAY-93	Total Organic Halides	UNFL		.030	J	0	mg/L
1041	116220	-	05-MAY-93	Total Organic Carbon	UNFL		1.040	-	0	mg/L
1042	110889	-	22-APR-93	Total Organic Carbon	UNFL		1.400	-	0	mg/L
1934	114620	-	13-MAY-93	Total Kjeldahl Nitrogen	UNFL		.500	-	0	mg/L
1934	114620	-	13-MAY-93	Total Organic Carbon	UNFL		1.570	-	0	mg/L

See footnotes at end of table

TABLE D-2G
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>GENERAL CHEMISTRY (Continued)</u>									
1934	114620	-	13-MAY-93	Total Organic Nitrogen	UNFL		1.200 -		0 mg/L
1934	114620	-	13-MAY-93	Total Organic Halides	UNFL		.018 -		0 mg/L
1937	114617	-	11-MAY-93	Chloride	UNFL		573.800 -		110.159 mg/L
1937	114617	-	11-MAY-93	Total Organic Nitrogen	UNFL		.150 -		0 mg/L
1937	114617	-	11-MAY-93	Total Organic Halides	UNFL		.067 -		0 mg/L
1937	114617	-	11-MAY-93	Total Kjeldahl Nitrogen	UNFL		.290 -		0 mg/L
1937	114626	-	01-JUN-93	Total Organic Carbon	UNFL		1.650 -		0 mg/L
1940	114784	-	11-JUN-93	Chloride	UNFL		180.780 -		110.159 mg/L
1940	114784	-	11-JUN-93	Total Organic Carbon	UNFL		1.220 -		0 mg/L
1940	114784	-	11-JUN-93	Sulfate	UNFL		147.500 -		141.894 mg/L
1940	114784	-	11-JUN-93	Total Organic Nitrogen	UNFL		.380 -		0 mg/L
1940	114784	-	11-JUN-93	Total Organic Halides	UNFL		.032 J		0 mg/L
1940	114784	-	11-JUN-93	Total Kjeldahl Nitrogen	UNFL		.380 -		0 mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

DUP = Duplicate Sample

TABLE D-2H
LIME SLUDGE POND
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER
GREAT MIAMI AQUIFER - PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
<u>METALS</u>									
2042	003415	-	09-AUG-88	Antimony	FLTR		.060 -	.038	mg/L
2042	004036	-	01-MAR-89	Calcium	FLTR	DUP	160.000 -	135.163	mg/L
2042	004036	-	01-MAR-89	Potassium	FLTR	DUP	3.700 -	3.087	mg/L
4101	003207	-	19-MAY-88	Iron	FLTR		5.840 -	4	mg/L
4101	003207	-	19-MAY-88	Potassium	FLTR		4.870 -	3.087	mg/L
4101	003208	-	19-MAY-88	Iron	FLTR	DUP	5.630 -	4	mg/L
4101	003208	-	19-MAY-88	Potassium	FLTR	DUP	3.880 -	3.087	mg/L
4101	003208	-	19-MAY-88	Molybdenum	FLTR	DUP	.028 -	.027	mg/L
4101	003719	-	18-NOV-88	Iron	FLTR		4.940 -	4	mg/L
4101	003719	-	18-NOV-88	Potassium	FLTR		4.120 -	3.087	mg/L
4101	003918	-	15-MAR-89	Iron	FLTR		4.230 -	4	mg/L
4101	003918	-	15-MAR-89	Potassium	FLTR		3.440 -	3.087	mg/L
<u>RADIONUCLIDES</u>									
2042	003150	-	04-MAY-88	TH-228	*U		1.600 J	1.52	pCi/L
2042	003150	-	04-MAY-88	U-TOTAL	*U		4.000 J	2.92	ug/L
2042	003150	-	04-MAY-88	U-238	*U		1.500 J	.9	pCi/L
2042	003921	-	01-MAR-89	U-TOTAL	*U		3.000 -	2.92	ug/L
2042	004036	-	01-MAR-89	U-TOTAL	*U	DUP	3.000 -	2.92	ug/L
2042	066845	-	05-JAN-90	U-238	UNKN		1.870 -	.9	pCi/L
2042	066845	-	05-JAN-90	U-TOTAL	UNKN		7.450 J	2.92	ug/L
4102	003919	-	23-FEB-89	U-238	*U		1.000 -	.9	pCi/L
<u>VOLATILE ORGANICS</u>									
2042	003150	-	04-MAY-88	Acetone	UNFL		7.000 J	0	ug/L
<u>SEMITOLATILE ORGANICS</u>									
2042	003415	-	09-AUG-88	Phenol	UNFL		50.000 -	0	ug/L

See footnotes at end of table

TABLE D-2H
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	RESULTS	VAL QUAL	BACKGROUND UNITS
GENERAL CHEMISTRY									
2042	003415	-	09-AUG-88	Fluoride	UNFL		1.200 -	.938 mg/L	
2042	003921	-	01-MAR-89	Total Kjeldahl Nitrogen	UNFL		.600 -	0 mg/L	
4101	003207	-	19-MAY-88	Ammonia	UNFL		3.600 J	3.24 mg/L	
4101	003208	-	19-MAY-88	Total Organic Nitrogen	UNFL	DUP	3.500 J	.652 mg/L	
4101	003719	-	18-NOV-88	Ammonia	UNFL		6.630 -	3.24 mg/L	
4101	003719	-	18-NOV-88	Total Kjeldahl Nitrogen	UNFL		6.790 -	0 mg/L	
4101	003918	-	15-MAR-89	Ammonia	UNFL		5.130 J	3.24 mg/L	
4101	003918	-	15-MAR-89	Total Kjeldahl Nitrogen	UNFL		3.480 J	0 mg/L	
4102	003720	-	18-NOV-88	Total Kjeldahl Nitrogen	UNFL		.580 -	0 mg/L	
4102	003919	-	23-FEB-89	Total Kjeldahl Nitrogen	UNFL		.800 J	0 mg/L	

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

UNKN = Unknown; filtered status could not be determined.

DUP = Duplicate Sample

*U = Unfiltered sample; filtered status not identified on Request for Analysis/Chain of Custody; determination based upon other field investigation documentation.

TABLE D-2I
LIME SLUDGE POND
CONCENTRATIONS OF DETECTED ANALYTES
ABOVE BACKGROUND^a IN GROUNDWATER
GREAT MIAMI AQUIFER - PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	VAL QUAL	BACKGROUND UNITS
<u>METALS</u>									
2042	110989	-	04-MAY-93	Manganese	UNFL		1.290 J		.8 mg/L
2042	110989	-	04-MAY-93	Potassium	UNFL		3.160 -		3.087 mg/L
2042	110990	-	04-MAY-93	Potassium	UNFL		3.100 -		3.087 mg/L
2042	110994	-	04-MAY-93	Cobalt	UNFL	DUP	.005 -		0 mg/L
2042	110994	-	04-MAY-93	Manganese	UNFL	DUP	2.080 J		.8 mg/L
2042	110994	-	04-MAY-93	Iron	UNFL	DUP	4.720 J		4 mg/L
2042	110995	-	04-MAY-93	Potassium	FLTR	DUP	3.160 -		3.087 mg/L
2935	114921	-	13-JUN-93	Aluminum	UNFL		.260 -		.184 mg/L
2936	114917	-	12-JUN-93	Potassium	UNFL	DUP	5.460 J		3.087 mg/L
<u>RADIOMNUCLIDES</u>									
2042	110989	-	04-MAY-93	GROSS BETA	UNFL		5.230 J		0 pCi/L
2042	110989	-	04-MAY-93	U-235/236	UNFL		.160 J		0 pCi/L
2042	110989	-	04-MAY-93	U-238	UNFL		1.230 -		.9 pCi/L
2042	110989	-	04-MAY-93	NP-237	UNFL		.100 N		0 pCi/L
2042	110989	-	04-MAY-93	PU-238	UNFL		.050 J		0 pCi/L
2042	110990	-	04-MAY-93	U-238	FLTR		1.310 -		.9 pCi/L
2042	110990	-	04-MAY-93	U-TOTAL	FLTR		3.100 -		2.92 ug/L
2042	110994	-	04-MAY-93	GROSS BETA	UNFL	DUP	7.880 J		0 pCi/L
2042	110994	-	04-MAY-93	U-TOTAL	UNFL	DUP	3.390 -		2.92 ug/L
2042	110994	-	04-MAY-93	U-238	UNFL	DUP	1.430 -		.9 pCi/L
2042	110994	-	04-MAY-93	NP-237	UNFL	DUP	.360 N		0 pCi/L
2042	110994	-	04-MAY-93	PU-238	UNFL	DUP	.190 J		0 pCi/L
2042	110995	-	04-MAY-93	NP-237	FLTR	DUP	.360 N		0 pCi/L
2042	110995	-	04-MAY-93	TH-232	FLTR	DUP	.110 J		0 pCi/L
2042	110995	-	04-MAY-93	U-238	FLTR	DUP	1.080 -		.9 pCi/L
2935	114921	-	13-JUN-93	NP-237	FLTR		.400 N		0 pCi/L
2935	114921	-	13-JUN-93	U-235/236	UNFL		.076 J		0 pCi/L
2935	114921	-	13-JUN-93	U-235/236	FLTR		.115 J		0 pCi/L
2935	114921	-	13-JUN-93	U-238	UNFL		1.230 -		.9 pCi/L
2935	114921	-	13-JUN-93	U-238	FLTR		1.180 -		.9 pCi/L
2935	114921	-	13-JUN-93	PU-238	FLTR		.062 J		0 pCi/L
2935	114921	-	13-JUN-93	PU-238	UNFL		.050 J		0 pCi/L

See footnote at end of table

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TABLE D-2I
(Continued)

SAMPLE LOCATION	SAMPLE ID	SAMPLE INTERVALS	SAMPLE DATE	PARAMETER	FILTER FLAG	DUPS	VAL RESULTS	QUAL	BACKGROUND UNITS
<u>RADIONUCLIDES (Continued)</u>									
2936	114788	-	12-JUN-93	NP-237	UNFL		.520 J		0 pCi/L
2936	114788	-	12-JUN-93	U-238	UNFL		1.940 J		.9 pCi/L
2936	114788	-	12-JUN-93	U-TOTAL	UNFL		3.640 J		2.92 ug/L
2936	114789	-	12-JUN-93	U-238	UNFL		1.390 J		.9 pCi/L
2936	114789	-	12-JUN-93	U-TOTAL	UNFL		3.790 J		2.92 ug/L
2936	114917	-	12-JUN-93	NP-237	UNFL	DUP	.295 N		0 pCi/L
2936	114917	-	12-JUN-93	PU-238	UNFL	DUP	.174 J		0 pCi/L
2936	114917	-	12-JUN-93	U-TOTAL	UNFL	DUP	3.430 -		2.92 ug/L
2936	114917	-	12-JUN-93	U-238	UNFL	DUP	1.290 -		.9 pCi/L
2936	114917	-	12-JUN-93	U-235/236	UNFL	DUP	.201 J		0 pCi/L
2936	114918	-	12-JUN-93	GROSS BETA	UNFL	DUP	5.610 J		0 pCi/L
2936	114918	-	12-JUN-93	U-TOTAL	UNFL	DUP	3.490 -		2.92 ug/L
2936	114918	-	12-JUN-93	U-238	UNFL	DUP	1.230 -		.9 pCi/L
2936	114918	-	12-JUN-93	U-235/236	UNFL	DUP	.167 J		0 pCi/L
2936	114918	-	12-JUN-93	NP-237	UNFL	DUP	.317 N		0 pCi/L
2939	114924	-	13-JUN-93	GROSS BETA	FLTR		6.180 J		0 pCi/L
2939	114924	-	13-JUN-93	U-235/236	FLTR		.072 J		0 pCi/L
2939	114924	-	13-JUN-93	NP-237	FLTR		.376 N		0 pCi/L
2939	114924	-	13-JUN-93	GROSS BETA	UNFL		5.080 J		0 pCi/L
<u>SEMOVOLATILE ORGANICS</u>									
2935	114921	-	13-JUN-93	Butyl benzyl phthalate	UNFL		2.000 J		0 ug/L
2936	114788	-	12-JUN-93	Butyl benzyl phthalate	UNFL		2.000 J		0 ug/L
2936	114917	-	12-JUN-93	Butyl benzyl phthalate	UNFL	DUP	1.000 J		0 ug/L
2939	114924	-	13-JUN-93	Butyl benzyl phthalate	UNFL		1.000 J		0 ug/L
<u>GENERAL CHEMISTRY</u>									
2042	110989	-	04-MAY-93	Total Kjeldahl Nitrogen	UNFL		.110 -		0 mg/L

^aBackground concentrations established for metals are filtered while all other background parameters are unfiltered.

FLTR = Filtered sample; filtered status identified on Request for Analysis/Chain of Custody

UNFL = Unfiltered sample; filtered status identified on Request for Analysis/Chain of Custody

DUP = Duplicate Sample

TABLE D-3A
LIME SLUDGE PONDS
RI/FS SURFACE SOIL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LSP-TR-01			LSP-TR-02			LSP-SS-03		
SAMPLING DATE	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.180	pCi/g	J	0.120	pCi/g	J	0.210	pCi/g	-
GROSS ALPHA	78.200	pCi/g	J	93.500	pCi/g	J	28.480	pCi/g	J
GROSS BETA	77.100	pCi/g	J	57.100	pCi/g	J	40.640	pCi/g	J
NP-237	0.160	pCi/g	N	0.210	pCi/g	N	0.160	pCi/g	N
PU-238	0.069	pCi/g	J	0.057	pCi/g	J	0.040	pCi/g	J
PU-239/240	0.470	pCi/g	J	0.470	pCi/g	J	0.037	pCi/g	J
RA-226	3.150	pCi/g	-	3.480	pCi/g	-	1.080	pCi/g	J
RA-228	2.000	pCi/g	-	1.800	pCi/g	-	1.420	pCi/g	-
RU-106	0.820	pCi/g	UJ	0.690	pCi/g	UJ	0.700	pCi/g	UJ
SR-90	0.217	pCi/g	UJ	0.210	pCi/g	UJ	0.235	pCi/g	UJ
TC-99	1.050	pCi/g	J	1.790	pCi/g	J	0.342	pCi/g	J
TH-228	1.750	pCi/g	-	1.540	pCi/g	-	0.950	pCi/g	-
TH-230	9.790	pCi/g	-	16.230	pCi/g	-	2.640	pCi/g	-
TH-232	0.950	pCi/g	-	0.920	pCi/g	-	1.130	pCi/g	-
TH-TOTAL	8.630	ug/g	-	8.410	ug/g	-	10.300	ug/g	-
U-234	19.500	pCi/g	-	13.400	pCi/g	-	8.000	pCi/g	J
U-235/236	1.313	pCi/g	-	0.770	pCi/g	-	0.414	pCi/g	J
U-238	20.400	pCi/g	-	14.800	pCi/g	-	8.490	pCi/g	J
U-TOTAL	51.600	mg/kg	J	45.000	mg/kg	J	35.800	mg/kg	-

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TABLE D-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	LSP-SS-04	LSP-SS-05	LSP-SS-06
SAMPLE NUMBER	114474	114485	114487
SAMPLING DATE	0 - 0.5 05/02/93	0 - 0.5 05/03/93	0 - 0.5 05/03/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.192	pCi/g	J
GROSS ALPHA	20.600	pCi/g	J
GROSS BETA	32.900	pCi/g	J
NP-237	0.041	pCi/g	N
PU-238	0.051	pCi/g	J
PU-239/240	0.052	pCi/g	J
RA-226	1.230	pCi/g	J
RA-228	1.350	pCi/g	J
RU-106	0.830	pCi/g	UJ
SR-90	0.419	pCi/g	UJ
TC-99	0.403	pCi/g	UJ
TH-228	0.980	pCi/g	-
TH-230	3.000	pCi/g	-
TH-232	1.010	pCi/g	-
TH-TOTAL	9.730	ug/g	-
U-234	5.580	pCi/g	C
U-235/236	0.290	pCi/g	C
U-238	6.540	pCi/g	C
U-TOTAL	28.900	mg/kg	-
	0.145	pCi/g	J
	12.900	pCi/g	J
	17.600	pCi/g	N
	0.590	pCi/g	N
	0.662	pCi/g	-
	0.200	pCi/g	J
	0.210	pCi/g	UJ
	0.460	pCi/g	UJ
	0.680	pCi/g	UJ
	0.458	pCi/g	UJ
	0.372	pCi/g	UJ
	0.310	pCi/g	UJ
	2.000	pCi/g	-
	0.224	pCi/g	C
	7.120	ug/g	-
	6.090	pCi/g	C
	0.335	pCi/g	C
	6.670	pCi/g	C
	20.500	mg/kg	-
	0.085	pCi/g	UJ
	9.500	pCi/g	UJ
	7.740	pCi/g	C
	0.050	pCi/g	N
	0.240	pCi/g	C
	0.030	pCi/g	C
	0.392	pCi/g	J
	0.460	pCi/g	UJ
	0.074	pCi/g	UJ
	0.352	pCi/g	UJ
	0.352	pCi/g	UJ
	0.230	pCi/g	C
	0.890	pCi/g	-
	0.220	pCi/g	C
	1.970	ug/g	-
	2.440	pCi/g	C
	0.103	pCi/g	C
	2.120	pCi/g	C
	14.300	mg/kg	C

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TABLE D-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	LSP-SS-07			LSP-SS-08			LSP-SS-09		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.064	pCi/g	J	0.280	pCi/g	-	0.090	pCi/g	UJ
GROSS ALPHA	99.650	pCi/g	-	23.600	pCi/g	J	9.440	pCi/g	UJ
GROSS BETA	42.740	pCi/g	-	34.700	pCi/g	J	7.980	pCi/g	J
NP-237	0.096	pCi/g	C-N	0.040	pCi/g	N	0.040	pCi/g	N
PU-238	0.057	pCi/g	C-N	0.040	pCi/g	N	0.030	pCi/g	UJ
PU-239/240	0.042	pCi/g	C-N	0.051	pCi/g	J	0.030	pCi/g	UJ
RA-226	2.450	pCi/g	-	1.170	pCi/g	-	0.200	pCi/g	UJ
RA-228	1.470	pCi/g	-	1.110	pCi/g	-	0.420	pCi/g	UJ
RU-106	0.650	pCi/g	C-O	0.820	pCi/g	C-O	0.870	pCi/g	UJ
SR-90	0.480	pCi/g	C-O	0.412	pCi/g	C-O	NA		
TC-99	0.390	pCi/g	C-O	0.347	pCi/g	-	0.380	pCi/g	UJ
TH-228	0.936	pCi/g	-	1.060	pCi/g	-	0.110	pCi/g	R
TH-230	44.800	pCi/g	-	2.400	pCi/g	-	0.250	pCi/g	R
TH-232	0.930	pCi/g	-	0.870	pCi/g	-	0.150	pCi/g	R
TH-TOTAL	8.470	ug/g	-	7.900	ug/g	-	0.240	ug/g	R
U-234	4.070	pCi/g	-	5.900	pCi/g	C-C	1.170	pCi/g	C-C
U-235/236	0.180	pCi/g	C	0.420	pCi/g	C	0.090	pCi/g	C
U-238	4.640	pCi/g	-	6.690	pCi/g	-	1.240	pCi/g	C-C
U-TOTAL	14.500	mg/kg	-	27.000	mg/kg	-	4.260	mg/kg	C-C

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TABLE D-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	LSP-SS-10			LSP-SS-11			LSP-SS-12				
SAMPLE NUMBER	114881	RESULTS	UNITS	VQ	114498	RESULTS	UNITS	VQ	114501		
SAMPLING DATE	0 - 0.5				0 - 0.5				0 - 0.5		
RADIOLOGICAL PARAMETERS											
CS-137	0.071	pc ⁱ /g	UJ		0.215	pc ⁱ /g	-		0.339	pc ⁱ /g	-
GROSS ALPHA	20.300	pc ⁱ /g	J		24.500	pc ⁱ /g			41.000	pc ⁱ /g	-
GROSS BETA	29.900	pc ⁱ /g	J		31.400	pc ⁱ /g			36.500	pc ⁱ /g	-
NP-237	0.161	pc ⁱ /g	N		0.143	pc ⁱ /g			0.284	pc ⁱ /g	-
PU-238	0.018	pc ⁱ /g	UJ		0.070	pc ⁱ /g			0.064	pc ⁱ /g	-
PU-239/240	0.018	pc ⁱ /g	UJ		0.049	pc ⁱ /g			0.040	pc ⁱ /g	-
RA-226	0.205	pc ⁱ /g	J		1.470	pc ⁱ /g			1.050	pc ⁱ /g	-
RA-228	0.360	pc ⁱ /g	UJ		1.070	pc ⁱ /g			0.709	pc ⁱ /g	-
RU-106	0.636	pc ⁱ /g	UJ		0.780	pc ⁱ /g			0.710	pc ⁱ /g	-
SR-90	0.159	pc ⁱ /g	UJ		0.508	pc ⁱ /g			0.627	pc ⁱ /g	-
TC-99	0.423	pc ⁱ /g	UJ		0.396	pc ⁱ /g			0.369	pc ⁱ /g	-
TH-228	0.082	pc ⁱ /g	J		0.935	pc ⁱ /g			0.865	pc ⁱ /g	-
TH-230	0.373	pc ⁱ /g	J		3.590	pc ⁱ /g			6.010	pc ⁱ /g	-
TH-232	0.037	pc ⁱ /g	J		0.841	pc ⁱ /g			0.693	pc ⁱ /g	-
TH-TOTAL	0.340	ug/g	J		7.660	ug/g			6.320	ug/g	-
U-234	1.080	pc ⁱ /g	J		7.710	pc ⁱ /g			7.870	pc ⁱ /g	-
U-235/236	0.025	pc ⁱ /g	J		0.377	pc ⁱ /g			0.348	pc ⁱ /g	-
U-238	0.856	pc ⁱ /g	-		9.380	pc ⁱ /g			9.540	pc ⁱ /g	-
U-TOTAL	2.450	mg/kg	J		29.000	mg/kg			25.700	mg/kg	-

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TABLE D-3A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	LSP-SS-13			LSP-SS-14		
SAMPLE NUMBER	114514			114516		
SAMPLING DATE	0 - 0.5			0 - 0.5		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.890	pCi/g	-	0.543	pCi/g	-
GROSS ALPHA	145.000	pCi/g	-	131.000	pCi/g	-
GROSS BETA	106.000	pCi/g	-	108.000	pCi/g	-
NP-237	0.720	pCi/g	C-N	0.676	pCi/g	C-N
PU-238	0.242	pCi/g	C-N	0.256	pCi/g	C-N
PU-239/240	0.119	pCi/g	-	0.122	pCi/g	-
RA-226	3.470	pCi/g	-	3.160	pCi/g	-
RA-228	2.920	pCi/g	-	2.850	pCi/g	-
RU-106	0.880	pCi/g	C-N	0.840	pCi/g	C-N
SR-90	0.203	pCi/g	C-N	0.785	pCi/g	C-N
TC-99	0.390	pCi/g	C-N	0.370	pCi/g	C-N
TH-228	2.910	pCi/g	C-N	2.580	pCi/g	C-N
TH-230	44.800	pCi/g	-	40.900	pCi/g	-
TH-232	2.750	pCi/g	-	NA		
TH-TOTAL	25.100	ug/g	-	22.300	ug/g	-
U-234	22.700	pCi/g	C-N	26.500	pCi/g	C-N
U-235/236	1.450	pCi/g	C-N	1.830	pCi/g	C-N
U-238	56.400	pCi/g	-	84.000	pCi/g	-
U-TOTAL	175.000	mg/kg	-	244.000	mg/kg	-

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-03	LSP-SS-04	LSP-SS-07			
SAMPLE NUMBER	114467	114474	114477			
SAMPLING DATE	0-0.5	0-0.5	0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Inorganics						
Aluminum	11300.000	mg/kg C U	12300.000	mg/kg D UJ	12800.000	mg/kg C R
Antimony	0.490	mg/kg C UJ	0.280	mg/kg D UJ	0.230	mg/kg C R
Arsenic	7.500	mg/kg C U	7.100	mg/kg D UJ	7.800	mg/kg C R
Barium	97.600	mg/kg C U	99.600	mg/kg D UJ	98.000	mg/kg C -
Beryllium	1.400	mg/kg C U	1.300	mg/kg D -	1.600	mg/kg C -
Cadmium	1.100	mg/kg C U	1.200	mg/kg D -	0.970	mg/kg C -
Calcium	20100.000	mg/kg C U	22100.000	mg/kg D UJ	52500.000	mg/kg C -
Chromium	16.300	mg/kg C U	16.500	mg/kg D -	18.900	mg/kg C -
Cobalt	10.400	mg/kg C U	11.500	mg/kg D -	13.800	mg/kg C -
Copper	25.400	mg/kg C U	19.900	mg/kg D -	22.000	mg/kg C -
Cyanide	0.150	mg/kg C U	0.190	mg/kg D -	0.120	mg/kg C -
Iron	23300.000	mg/kg C U	22800.000	mg/kg D U	19900.000	mg/kg C -
Lead	18.900	mg/kg C U	17.000	mg/kg D U	23.900	mg/kg C -
Magnesium	9050.000	mg/kg C U	8160.000	mg/kg D U	16900.000	mg/kg C -
Manganese	584.000	mg/kg C U	569.000	mg/kg D U	743.000	mg/kg C -
Mercury	0.120	mg/kg C U	0.120	mg/kg D U	0.110	mg/kg C -
Molybdenum	1.300	mg/kg C U	2.000	mg/kg D U	1.600	mg/kg C -
Nickel	20.500	mg/kg C U	21.000	mg/kg D U	21.700	mg/kg C -
Potassium	1470.000	mg/kg C U	1320.000	mg/kg D U	1700.000	mg/kg C U
Selenium	0.250	mg/kg C U	0.240	mg/kg D U	0.230	mg/kg C U
Silicon	1000.000	mg/kg C U	1170.000	mg/kg D U	785.000	mg/kg C U
Silver	0.490	mg/kg C U	0.460	mg/kg D U	0.460	mg/kg C U
Sodium	90.100	mg/kg C U	98.900	mg/kg D U	131.000	mg/kg C U
Thallium	0.250	mg/kg C U	0.240	mg/kg D U	0.230	mg/kg C U
Vanadium	27.600	mg/kg C U	28.300	mg/kg D U	31.000	mg/kg C U
Zinc	56.500	mg/kg C U	55.900	mg/kg D U	96.600	mg/kg C U
Volatile Organics						
1,1,1-Trichloroethane	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
1,1,2,2-Tetrachloroethane	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
1,1,2-Trichloroethane	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
1,1-Dichloroethane	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
1,1-Dichloroethene	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
1,2-Dichloroethane	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
1,2-Dichloroethene	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
1,2-Dichloroethene	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
1,2-Dichloropropane	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
2-Butanone	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
2-Hexanone	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
4-Methyl-2-pentanone	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
Acetone	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U
Benzene	13.000	ug/kg C U	12.000	ug/kg D U	12.000	ug/kg C U

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-03				LSP-SS-04				LSP-SS-07			
SAMPLE NUMBER	114467				114474				114477			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics												
Bromodichloromethane	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Bromoform	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Bromomethane	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Carbon Tetrachloride	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Carbon disulfide	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Chlorobenzene	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Chloroethane	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Chloroform	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Chloromethane	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Dibromochloromethane	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Ethylbenzene	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Methylene chloride	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Styrene	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Tetrachloroethene	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Toluene	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Trichloroethene	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Vinyl Acetate	NA				NA				12.000	ug/kg	C	U
Vinyl chloride	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Xylenes, Total	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	13.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Semivolatile Organics												
1,2,4-Trichlorobenzene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
1,2-Dichlorobenzene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
1,3-Dichlorobenzene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
1,4-Dichlorobenzene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
2,4,5-Trichlorophenol	990.000	ug/kg	C	U	970.000	ug/kg	D	U	1400.000	ug/kg	C	U
2,4,6-Trichlorophenol	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
2,4-Dichlorophenol	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
2,4-Dimethylphenol	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
2,4-Dinitrophenol	990.000	ug/kg	C	U	970.000	ug/kg	D	U	1400.000	ug/kg	C	U
2,4-Dinitrotoluene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
2,6-Dinitrotoluene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
2-Chloronaphthalene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
2-Chlorophenol	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
2-Methylnaphthalene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
2-Methylphenol	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
2-Nitroaniline	990.000	ug/kg	C	U	970.000	ug/kg	D	U	1400.000	ug/kg	C	U
2-Nitrophenol	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
3,3'-Dichlorobenzidine	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-03				LSP-SS-04				LSP-SS-07			
SAMPLE NUMBER	114467				114474				114477			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3-Nitroaniline	990.000	ug/kg	C	UJ	970.000	ug/kg	D	UJ	1400.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	990.000	ug/kg	C	U	970.000	ug/kg	D	U	1400.000	ug/kg	C	U
4-Bromophenyl phenyl ether	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
4-Chloro-3-methylphenol	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
4-Chlorophenylphenyl ether	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
4-Methylphenol	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
4-Nitroaniline	990.000	ug/kg	C	R	970.000	ug/kg	D	U	1400.000	ug/kg	C	U
4-Nitrophenol	990.000	ug/kg	C	U	970.000	ug/kg	D	U	1400.000	ug/kg	C	U
Acenaphthene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Acenaphthylene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Anthracene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Benzo(a)anthracene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Benzo(a)pyrene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Benzo(b)fluoranthene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Benzo(g,h,i)perylene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Benzo(k)fluoranthene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Benzoic acid	2000.000	ug/kg	C	U	1900.000	ug/kg	D	U	2800.000	ug/kg	C	U
Benzyl alcohol	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Butyl benzyl phthalate	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Carbazole	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Chrysene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Di-n-butyl phthalate	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Di-n-octyl phthalate	410.000	ug/kg	C	U	400.000	ug/kg	D	U	87.000	ug/kg	C	U
Dibenzo(a,h)anthracene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Dibenzofuran	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Diethyl phthalate	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Dimethyl phthalate	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Fluoranthene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Fluorene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Hexachlorobenzene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Hexachlorobutadiene	410.000	ug/kg	C	R	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Hexachlorocyclopentadiene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Hexachloroethane	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Isophorone	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
N-Nitrosodiphenylamine	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Naphthalene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Nitrobenzene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Pentachlorophenol	990.000	ug/kg	C	U	970.000	ug/kg	D	U	1400.000	ug/kg	C	U
Phenanthrene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
Phenol	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U

TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-03				LSP-SS-04				LSP-SS-07			
SAMPLE NUMBER	114467				114474				114477			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Pyrene	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
bis(2-Chloroethoxy)methane	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
bis(2-Chloroethyl)ether	410.000	ug/kg	C	U	400.000	ug/kg	D	U	580.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	410.000	ug/kg	C	UJ	400.000	ug/kg	D	UJ	580.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	240.000	ug/kg	C	J	10000.000	ug/kg	D	-	1700.000	ug/kg	C	U
p-Chloroaniline	410.000	ug/kg	C	U	400.000	ug/kg	D	UJ	580.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	4.100	ug/kg	C	U	4.000	ug/kg	D	U	5.900	ug/kg	C	U
4,4'-DDE	4.100	ug/kg	C	U	4.000	ug/kg	D	U	5.900	ug/kg	C	U
4,4'-DDT	4.100	ug/kg	C	U	4.000	ug/kg	D	U	5.900	ug/kg	C	U
Aldrin	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.100	ug/kg	C	U
Aroclor-1016	41.000	ug/kg	C	U	40.000	ug/kg	D	U	59.000	ug/kg	C	U
Aroclor-1221	83.000	ug/kg	C	U	81.000	ug/kg	D	U	120.000	ug/kg	C	U
Aroclor-1232	41.000	ug/kg	C	U	40.000	ug/kg	D	U	59.000	ug/kg	C	U
Aroclor-1242	41.000	ug/kg	C	U	40.000	ug/kg	D	U	59.000	ug/kg	C	U
Aroclor-1248	41.000	ug/kg	C	U	40.000	ug/kg	D	U	59.000	ug/kg	C	U
Aroclor-1254	41.000	ug/kg	C	U	40.000	ug/kg	D	U	59.000	ug/kg	C	U
Aroclor-1260	41.000	ug/kg	C	U	40.000	ug/kg	D	U	59.000	ug/kg	C	U
Dieldrin	4.100	ug/kg	C	U	4.000	ug/kg	D	U	5.900	ug/kg	C	U
Endosulfan II	4.100	ug/kg	C	U	4.000	ug/kg	D	U	5.900	ug/kg	C	U
Endosulfan sulfate	4.100	ug/kg	C	U	4.000	ug/kg	D	U	5.900	ug/kg	C	U
Endosulfan-I	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.100	ug/kg	C	U
Endrin	4.100	ug/kg	C	U	4.000	ug/kg	D	U	5.900	ug/kg	C	U
Endrin aldehyde	4.100	ug/kg	C	U	4.000	ug/kg	D	U	5.900	ug/kg	C	U
Endrin ketone	4.100	ug/kg	C	U	4.000	ug/kg	D	U	5.900	ug/kg	C	U
Heptachlor	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.100	ug/kg	C	U
Heptachlor epoxide	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.100	ug/kg	C	U
Methoxychlor	21.000	ug/kg	C	UJ	21.000	ug/kg	D	J	31.000	ug/kg	C	U
Toxaphene	210.000	ug/kg	C	U	210.000	ug/kg	D	U	310.000	ug/kg	C	U
alpha-BHC	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.100	ug/kg	C	U
alpha-Chlordane	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.100	ug/kg	C	U
beta-BHC	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.100	ug/kg	C	U
delta-BHC	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.100	ug/kg	C	U
gamma-BHC (Lindane)	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.100	ug/kg	C	U
gamma-Chlordane	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.100	ug/kg	C	U

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-05	LSP-SS-06	LSP-SS-08
SAMPLE NUMBER	114485	114487	114488
SAMPLING DATE	0-0.5 05/03/93	0-0.5 05/03/93	0-0.5 05/03/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Inorganics</u>			
Aluminum	4070.000	mg/kg C	-
Antimony	0.600	mg/kg C	-
Arsenic	5.200	mg/kg C	9.500
Barium	71.100	mg/kg C	82.700
Beryllium	0.350	mg/kg C	0.470
Cadmium	0.710	mg/kg C	0.680
Calcium	347000.000	mg/kg C	312000.000
Chromium	20.100	mg/kg C	5.100
Cobalt	1.100	mg/kg C	5.200
Copper	36.000	mg/kg C	36.000
Cyanide	0.320	mg/kg C	0.820
Iron	4620.000	mg/kg C	5040.000
Lead	7.800	mg/kg C	6.300
Magnesium	15600.000	mg/kg C	13800.000
Manganese	622.000	mg/kg C	562.000
Mercury	0.180	mg/kg C	0.270
Molybdenum	1.100	mg/kg C	1.000
Nickel	5.200	mg/kg C	8.300
Potassium	63.000	mg/kg C	162.000
Selenium	0.340	mg/kg C	0.340
Silicon	3200.000	mg/kg C	3550.000
Silver	0.710	mg/kg C	0.680
Sodium	222.000	mg/kg C	231.000
Thallium	0.340	mg/kg C	0.340
Vanadium	15.600	mg/kg C	14.200
Zinc	21.800	mg/kg C	35.900
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	19.000	ug/kg C	94.000
1,1,2,2-Tetrachloroethane	19.000	ug/kg C	94.000
1,1,2-Trichloroethane	19.000	ug/kg C	94.000
1,1-Dichloroethane	19.000	ug/kg C	94.000
1,1-Dichloroethene	19.000	ug/kg C	94.000
1,2-Dichloroethane	19.000	ug/kg C	94.000
1,2-Dichloroethene	19.000	ug/kg C	94.000
2-Butanone	19.000	ug/kg C	94.000
2-Hexanone	19.000	ug/kg C	94.000
4-Methyl-2-pentanone	19.000	ug/kg C	94.000
Acetone	19.000	ug/kg C	94.000
Benzene	19.000	ug/kg C	94.000

TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-05				LSP-SS-06				LSP-SS-08			
SAMPLE NUMBER	114485				114487				114488			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Tetrachloride	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon disulfide	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroethane	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloromethane	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Styrene	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Trichloroethene	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	19.000	ug/kg	C	U	94.000	ug/kg	C	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
1,2-Dichlorobenzene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
1,3-Dichlorobenzene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
1,4-Dichlorobenzene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
2,4,5-Trichlorophenol	1400.000	ug/kg	C	U	1700.000	ug/kg	C	U	960.000	ug/kg	C	U
2,4,6-Trichlorophenol	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
2,4-Dichlorophenol	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
2,4-Dimethylphenol	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
2,4-Dinitrophenol	1400.000	ug/kg	C	U	1700.000	ug/kg	C	U	960.000	ug/kg	C	U
2,4-Dinitrotoluene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
2,6-Dinitrotoluene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
2-Chloronaphthalene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
2-Chlorophenol	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
2-Methylnaphthalene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
2-Methylphenol	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
2-Nitroaniline	1400.000	ug/kg	C	U	1700.000	ug/kg	C	U	960.000	ug/kg	C	U
2-Nitrophenol	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
3,3'-Dichlorobenzidine	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
3-Nitroaniline	1400.000	ug/kg	C	U	1700.000	ug/kg	C	U	960.000	ug/kg	C	U

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-05				LSP-SS-06				LSP-SS-08			
SAMPLE NUMBER	114485				114487				114488			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
4,6-Dinitro-2-methylphenol	1400.000	ug/kg	C	U	1700.000	ug/kg	C	U	960.000	ug/kg	C	U
4-Bromophenyl phenyl ether	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
4-Chloro-3-methylphenol	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
4-Chlorophenylphenyl ether	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
4-Methylphenol	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
4-Nitroaniline	1400.000	ug/kg	C	U	1700.000	ug/kg	C	U	960.000	ug/kg	C	U
4-Nitrophenol	1400.000	ug/kg	C	R	1700.000	ug/kg	C	U	960.000	ug/kg	C	U
Acenaphthene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Acenaphthylene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Anthracene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzo(a)anthracene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzo(a)pyrene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzo(b)fluoranthene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzo(g,h,i)perylene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzo(k)fluoranthene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzoic acid	2800.000	ug/kg	C	U	3300.000	ug/kg	C	U	1900.000	ug/kg	C	U
Benzyl alcohol	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Butyl benzyl phthalate	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Carbazole	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Chrysene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Di-n-butyl phthalate	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Di-n-octyl phthalate	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Dibenzo(a,h)anthracene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Dibenzofuran	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Diethyl phthalate	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Dimethyl phthalate	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Fluoranthene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Fluorene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachlorobenzene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachlorobutadiene	570.000	ug/kg	C	R	690.000	ug/kg	C	R	400.000	ug/kg	C	R
Hexachlorocyclopentadiene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachloroethane	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Isophorone	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
N-Nitrosodiphenylamine	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Naphthalene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Nitrobenzene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Pentachlorophenol	1400.000	ug/kg	C	U	1700.000	ug/kg	C	U	960.000	ug/kg	C	U
Phenanthrene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Phenol	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
Pyrene	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U

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0661

TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-05				LSP-SS-06				LSP-SS-08			
SAMPLE NUMBER	114485				114487				114488			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
bis(2-Chloroethoxy)methane	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
bis(2-Chloroethyl)ether	570.000	ug/kg	C	U	690.000	ug/kg	C	U	400.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	570.000	ug/kg	C	UJ	690.000	ug/kg	C	UJ	400.000	ug/kg	C	UJ
bis(2-Ethylhexyl) phthalate	78.000	ug/kg	C	J	220.000	ug/kg	C	J	96.000	ug/kg	C	J
p-Chloroaniline	570.000	ug/kg	C	UJ	690.000	ug/kg	C	U	400.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	5.600	ug/kg	C	U	7.100	ug/kg	C	U	4.000	ug/kg	C	U
4,4'-DDE	5.600	ug/kg	C	U	7.100	ug/kg	C	U	4.000	ug/kg	C	U
4,4'-DDT	5.600	ug/kg	C	U	7.100	ug/kg	C	U	4.000	ug/kg	C	U
Aldrin	2.900	ug/kg	C	U	3.600	ug/kg	C	U	2.000	ug/kg	C	U
Aroclor-1016	56.000	ug/kg	C	U	71.000	ug/kg	C	U	40.000	ug/kg	C	U
Aroclor-1221	110.000	ug/kg	C	U	140.000	ug/kg	C	U	81.000	ug/kg	C	U
Aroclor-1232	56.000	ug/kg	C	U	71.000	ug/kg	C	U	40.000	ug/kg	C	U
Aroclor-1242	56.000	ug/kg	C	U	71.000	ug/kg	C	U	40.000	ug/kg	C	U
Aroclor-1248	56.000	ug/kg	C	U	71.000	ug/kg	C	U	40.000	ug/kg	C	U
Aroclor-1254	56.000	ug/kg	C	U	71.000	ug/kg	C	U	40.000	ug/kg	C	U
Aroclor-1260	56.000	ug/kg	C	U	71.000	ug/kg	C	U	40.000	ug/kg	C	U
Dieldrin	5.600	ug/kg	C	U	7.100	ug/kg	C	U	4.000	ug/kg	C	U
Endosulfan II	5.600	ug/kg	C	U	7.100	ug/kg	C	U	4.000	ug/kg	C	U
Endosulfan sulfate	5.600	ug/kg	C	U	7.100	ug/kg	C	U	4.000	ug/kg	C	U
Endosulfan-I	2.900	ug/kg	C	U	3.600	ug/kg	C	U	2.000	ug/kg	C	U
Endrin	5.600	ug/kg	C	U	7.100	ug/kg	C	U	4.000	ug/kg	C	U
Endrin aldehyde	5.600	ug/kg	C	U	7.100	ug/kg	C	U	4.000	ug/kg	C	U
Endrin ketone	5.600	ug/kg	C	U	7.100	ug/kg	C	U	4.000	ug/kg	C	U
Heptachlor	2.900	ug/kg	C	U	3.600	ug/kg	C	U	2.000	ug/kg	C	U
Heptachlor epoxide	2.900	ug/kg	C	U	3.600	ug/kg	C	U	2.000	ug/kg	C	U
Methoxychlor	29.000	ug/kg	C	U	36.000	ug/kg	C	U	20.000	ug/kg	C	U
Toxaphene	290.000	ug/kg	C	U	360.000	ug/kg	C	U	200.000	ug/kg	C	U
alpha-BHC	2.900	ug/kg	C	U	3.600	ug/kg	C	U	2.000	ug/kg	C	U
alpha-Chlordane	2.900	ug/kg	C	U	3.600	ug/kg	C	U	2.000	ug/kg	C	U
beta-BHC	2.900	ug/kg	C	U	3.600	ug/kg	C	U	2.000	ug/kg	C	U
delta-BHC	2.900	ug/kg	C	U	3.600	ug/kg	C	U	2.000	ug/kg	C	U
gamma-BHC (Lindane)	2.900	ug/kg	C	U	3.600	ug/kg	C	U	2.000	ug/kg	C	U
gamma-Chlordane	2.900	ug/kg	C	U	3.600	ug/kg	C	U	2.000	ug/kg	C	U

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-11	LSP-SS-12	LSP-SS-13			
SAMPLE NUMBER	114498	114501	114514			
SAMPLING DATE	0-0.5	0-0.5	0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Aluminum	9690.000	mg/kg C -	11900.000	mg/kg C -	7380.000	mg/kg C -
Antimony	1.200	mg/kg C UJ	0.790	mg/kg C UJ	0.860	mg/kg C -
Arsenic	6.400	mg/kg C -	5.800	mg/kg C -	7.100	mg/kg C -
Barium	81.300	mg/kg C -	82.000	mg/kg C -	82.700	mg/kg C -
Beryllium	1.500	mg/kg C -	1.700	mg/kg C -	1.800	mg/kg C -
Cadmium	1.100	mg/kg C -	1.100	mg/kg C -	0.460	mg/kg C -
Calcium	48500.000	mg/kg C -	67000.000	mg/kg C -	97300.000	mg/kg C -
Chromium	13.000	mg/kg C -	16.000	mg/kg C -	14.200	mg/kg C -
Cobalt	9.300	mg/kg C -	8.900	mg/kg C -	5.100	mg/kg C -
Copper	20.500	mg/kg C -	19.100	mg/kg C -	18.600	mg/kg C -
Cyanide	0.130	mg/kg C -	0.120	mg/kg C -	0.690	mg/kg C -
Iron	18100.000	mg/kg C -	19100.000	mg/kg C -	10800.000	mg/kg C -
Lead	19.700	mg/kg C -	21.300	mg/kg C -	52.700	mg/kg C -
Magnesium	17500.000	mg/kg C -	19600.000	mg/kg C -	27500.000	mg/kg C -
Manganese	546.000	mg/kg C -	585.000	mg/kg C -	995.000	mg/kg C -
Mercury	0.130	mg/kg C -	0.110	mg/kg C -	0.110	mg/kg C -
Molybdenum	1.200	mg/kg C -	1.100	mg/kg C -	1.900	mg/kg C -
Nickel	17.800	mg/kg C -	18.300	mg/kg C -	11.600	mg/kg C -
Potassium	1400.000	mg/kg C -	2080.000	mg/kg C -	853.000	mg/kg C -
Selenium	0.250	mg/kg C -	0.230	mg/kg C -	0.370	mg/kg C -
Silicon	1070.000	mg/kg C -	867.000	mg/kg C -	1920.000	mg/kg C -
Silver	0.510	mg/kg C -	0.460	mg/kg C -	0.460	mg/kg C -
Sodium	142.000	mg/kg C -	155.000	mg/kg C -	262.000	mg/kg C -
Thallium	0.250	mg/kg C -	0.230	mg/kg C -	0.230	mg/kg C -
Vanadium	23.600	mg/kg C -	28.400	mg/kg C -	20.400	mg/kg C -
Zinc	55.700	mg/kg C -	55.500	mg/kg C -	54.300	mg/kg C -
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
1,1,2,2-Tetrachloroethane	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
1,1,2-Trichloroethane	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
1,1-Dichloroethane	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
1,1-Dichloroethene	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
1,2-Dichloroethane	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
1,2-Dichloroethene	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
1,2-Dichloropropane	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
2-Butanone	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
2-Hexanone	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
4-Methyl-2-pentanone	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ
Acetone	12.000	ug/kg C UJ	2.000	ug/kg C UJ	12.000	ug/kg C UJ
Benzene	12.000	ug/kg C UJ	12.000	ug/kg C UJ	12.000	ug/kg C UJ

TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-11				LSP-SS-12				LSP-SS-13			
SAMPLE NUMBER	114498				114501				114514			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Tetrachloride	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon disulfide	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	12.000	ug/kg	C	U	12.000	ug/kg	C	U	27.000	ug/kg	C	U
Styrene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	12.000	ug/kg	C	U	4.000	ug/kg	C	J	7.000	ug/kg	C	J
Trichloroethene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl Acetate	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	390.000	ug/kg	C	UJ	410.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
1,2-Dichlorobenzene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
1,3-Dichlorobenzene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
1,4-Dichlorobenzene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4,5-Trichlorophenol	950.000	ug/kg	C	U	1000.000	ug/kg	C	U	950.000	ug/kg	C	U
2,4,6-Trichlorophenol	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4-Dichlorophenol	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4-Dimethylphenol	390.000	ug/kg	C	R	410.000	ug/kg	C	R	390.000	ug/kg	C	U
2,4-Dinitrophenol	950.000	ug/kg	C	R	1000.000	ug/kg	C	R	950.000	ug/kg	C	R
2,4-Dinitrotoluene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2,6-Dinitrotoluene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Benzyl-4-chlorophenol	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Chloronaphthalene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Chlorophenol	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Methylnaphthalene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Methylphenol	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Nitroaniline	950.000	ug/kg	C	U	1000.000	ug/kg	C	U	950.000	ug/kg	C	U
2-Nitrophenol	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-11				LSP-SS-12				LSP-SS-13			
SAMPLE NUMBER	114498	ug/kg	C	U	114501	ug/kg	C	U	114514			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
3-Nitroaniline	950.000	ug/kg	C	U	1000.000	ug/kg	C	U	950.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	950.000	ug/kg	C	R	1000.000	ug/kg	C	R	950.000	ug/kg	C	R
4-Bromophenyl phenyl ether	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Chloro-3-methylphenol	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Chlorophenylphenyl ether	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Methylphenol	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Nitroaniline	950.000	ug/kg	C	U	1000.000	ug/kg	C	U	950.000	ug/kg	C	U
4-Nitrophenol	950.000	ug/kg	C	R	1000.000	ug/kg	C	R	950.000	ug/kg	C	R
Acenaphthene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Acenaphthylene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Anthracene	1.000	ug/kg	C	J	410.000	ug/kg	C	U	120.000	ug/kg	C	-
Benzo(a)anthracene	1.000	ug/kg	C	J	410.000	ug/kg	C	U	630.000	ug/kg	C	-
Benzo(a)pyrene	1.000	ug/kg	C	J	410.000	ug/kg	C	U	820.000	ug/kg	C	-
Benzo(b)fluoranthene	2.000	ug/kg	C	J	410.000	ug/kg	C	U	680.000	ug/kg	C	-
Benzo(g,h,i)perylene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	530.000	ug/kg	C	U
Benzo(k)fluoranthene	2.000	ug/kg	C	J	410.000	ug/kg	C	U	660.000	ug/kg	C	U
Benzoic acid	1900.000	ug/kg	C	R	2000.000	ug/kg	C	U	1900.000	ug/kg	C	R
Benzyl alcohol	390.000	ug/kg	C	UJ	410.000	ug/kg	C	U	390.000	ug/kg	C	UJ
Butyl benzyl phthalate	390.000	ug/kg	C	R	410.000	ug/kg	C	U	390.000	ug/kg	C	R
Carbazole	390.000	ug/kg	C	U	410.000	ug/kg	C	U	71.000	ug/kg	C	J
Chrysene	2.000	ug/kg	C	J	43.000	ug/kg	C	U	720.000	ug/kg	C	-
Di-n-butyl phthalate	390.000	ug/kg	C	U	410.000	ug/kg	C	U	42.000	ug/kg	C	J
Di-n-octyl phthalate	390.000	ug/kg	C	RJ	410.000	ug/kg	C	U	390.000	ug/kg	C	RJ
Dibenzo(a,h)anthracene	390.000	ug/kg	C	RJ	410.000	ug/kg	C	U	240.000	ug/kg	C	RJ
Dibenzofuran	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Diethyl phthalate	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Dimethyl phthalate	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Fluoranthene	3.000	ug/kg	C	J	74.000	ug/kg	C	U	1300.000	ug/kg	C	-
Fluorene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	-
Hexachlorobenzene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	-
Hexachlorobutadiene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	-
Hexachlorocyclopentadiene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	-
Hexachloroethane	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	-
Indeno(1,2,3-cd)pyrene	390.000	ug/kg	C	J	410.000	ug/kg	C	U	580.000	ug/kg	C	-
Isophorone	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	-
N-Nitroso-di-n-propylamine	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	-
N-Nitrosodiphenylamine	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	-
Naphthalene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	-
Nitrobenzene	390.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	-
Pentachlorophenol	950.000	ug/kg	C	U	1000.000	ug/kg	C	U	950.000	ug/kg	C	-
Phenanthrene	1.000	ug/kg	C	J	410.000	ug/kg	C	U	640.000	ug/kg	C	-

TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LSP-SS-11 114498 0-0.5	RESULTS 390.000	UNITS ug/kg	L C	VQ U	LSP-SS-12 114501 0-0.5	RESULTS 410.000	UNITS ug/kg	L C	VQ U	LSP-SS-13 114514 0-0.5	RESULTS 390.000	UNITS ug/kg	L C	VQ U
SAMPLING DATE	05/04/93					05/04/93					05/05/93				
CHEMICAL PARAMETERS		RESULTS	UNITS	L	VQ		RESULTS	UNITS	L	VQ		RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Phenol		390.000	ug/kg	C	U		410.000	ug/kg	C	U		390.000	ug/kg	C	U
Pyrene		3.000	ug/kg	C	J		61.000	ug/kg	C	J		1100.000	ug/kg	C	-
bis(2-Chloroethoxy)methane		390.000	ug/kg	C	U		410.000	ug/kg	C	U		390.000	ug/kg	C	U
bis(2-Chloroethyl)ether		390.000	ug/kg	C	U		410.000	ug/kg	C	U		390.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether		390.000	ug/kg	C	U		410.000	ug/kg	C	U		390.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate		390.000	ug/kg	C	UJ		410.000	ug/kg	C	UJ		390.000	ug/kg	C	UJ
p-Chloroaniline		390.000	ug/kg	C	U		410.000	ug/kg	C	U		390.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD		4.000	ug/kg	C	U		4.100	ug/kg	C	U		4.000	ug/kg	C	U
4,4'-DDE		4.000	ug/kg	C	U		4.100	ug/kg	C	U		4.000	ug/kg	C	U
4,4'-DDT		4.000	ug/kg	C	U		4.100	ug/kg	C	U		4.000	ug/kg	C	U
Aldrin		2.000	ug/kg	C	U		2.100	ug/kg	C	U		2.000	ug/kg	C	U
Aroclor-1016		40.000	ug/kg	C	U		41.000	ug/kg	C	U		40.000	ug/kg	C	U
Aroclor-1221		81.000	ug/kg	C	U		84.000	ug/kg	C	U		80.000	ug/kg	C	U
Aroclor-1232		40.000	ug/kg	C	U		41.000	ug/kg	C	U		40.000	ug/kg	C	U
Aroclor-1242		40.000	ug/kg	C	U		41.000	ug/kg	C	U		40.000	ug/kg	C	U
Aroclor-1248		40.000	ug/kg	C	U		41.000	ug/kg	C	U		40.000	ug/kg	C	U
Aroclor-1254		40.000	ug/kg	C	U		43.000	ug/kg	C	U		590.000	ug/kg	C	U
Aroclor-1260		40.000	ug/kg	C	U		41.000	ug/kg	C	U		40.000	ug/kg	C	U
Dieldrin		4.000	ug/kg	C	U		4.100	ug/kg	C	U		4.000	ug/kg	C	U
Endosulfan II		4.000	ug/kg	C	U		4.100	ug/kg	C	U		4.000	ug/kg	C	U
Endosulfan sulfate		4.000	ug/kg	C	U		4.100	ug/kg	C	U		4.000	ug/kg	C	U
Endosulfan-I		2.000	ug/kg	C	U		2.100	ug/kg	C	U		2.000	ug/kg	C	U
Endrin		4.000	ug/kg	C	U		4.100	ug/kg	C	U		4.000	ug/kg	C	U
Endrin aldehyde		4.000	ug/kg	C	U		4.100	ug/kg	C	U		4.000	ug/kg	C	U
Endrin ketone		4.000	ug/kg	C	U		4.100	ug/kg	C	U		4.000	ug/kg	C	U
Heptachlor		2.000	ug/kg	C	U		2.100	ug/kg	C	U		2.000	ug/kg	C	U
Heptachlor epoxide		2.000	ug/kg	C	U		2.100	ug/kg	C	U		2.000	ug/kg	C	U
Methoxychlor		20.000	ug/kg	C	U		21.000	ug/kg	C	U		20.000	ug/kg	C	U
Toxaphene		200.000	ug/kg	C	U		210.000	ug/kg	C	U		200.000	ug/kg	C	U
alpha-BHC		2.000	ug/kg	C	U		2.100	ug/kg	C	U		2.000	ug/kg	C	U
alpha-Chlordane		2.000	ug/kg	C	U		2.100	ug/kg	C	U		2.000	ug/kg	C	U
beta-BHC		2.000	ug/kg	C	U		2.100	ug/kg	C	U		2.000	ug/kg	C	U
delta-BHC		2.000	ug/kg	C	U		2.100	ug/kg	C	U		2.000	ug/kg	C	U
gamma-BHC (Lindane)		2.000	ug/kg	C	U		2.100	ug/kg	C	U		2.000	ug/kg	C	U
gamma-Chlordane		2.000	ug/kg	C	U		2.100	ug/kg	C	U		2.000	ug/kg	C	U

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-14	LSP-TR-01	LSP-TR-01
SAMPLE NUMBER	114516	114581	114589
SAMPLING DATE	0-0.5 05/05/93	0-0.5 05/11/93	0-0.5 05/16/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	12700.000	mg/kg C UJ	NA
Antimony	0.600	mg/kg C UJ	1.300
Arsenic	5.700	mg/kg C UJ	5.800
Barium	101.000	mg/kg C UJ	77.200
Beryllium	2.000	mg/kg C UJ	0.500
Cadmium	0.980	mg/kg C UJ	1.300
Calcium	83100.000	mg/kg C UJ	112000.000
Chromium	18.000	mg/kg C UJ	54.200
Cobalt	8.200	mg/kg C UJ	4.700
Copper	21.500	mg/kg C UJ	67.100
Cyanide	0.350	mg/kg C UJ	0.130
Iron	16700.000	mg/kg C UJ	74000.000
Lead	45.900	mg/kg C UJ	58.300
Magnesium	21500.000	mg/kg C UJ	17400.000
Manganese	1210.000	mg/kg C UJ	681.000
Mercury	0.110	mg/kg C UJ	0.100
Molybdenum	1.300	mg/kg C UJ	21.000
Nickel	17.900	mg/kg C UJ	24.600
Potassium	1930.000	mg/kg C UJ	765.000
Selenium	0.260	mg/kg C UJ	0.530
Silicon	1030.000	mg/kg C UJ	604.000
Silver	0.480	mg/kg C UJ	20.800
Sodium	222.000	mg/kg C UJ	187.000
Thallium	0.240	mg/kg C UJ	0.530
Vanadium	29.900	mg/kg C UJ	39.100
Zinc	68.000	mg/kg C UJ	107.000
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg C UJ	NA
1,1,2,2-Tetrachloroethane	12.000	ug/kg C UJ	13.000
1,1,2-Trichloroethane	12.000	ug/kg C UJ	NA
1,1-Dichloroethane	12.000	ug/kg C UJ	NA
1,1-Dichloroethene	12.000	ug/kg C UJ	NA
1,2-Dichloroethane	12.000	ug/kg C UJ	NA
1,2-Dichloroethene	12.000	ug/kg C UJ	NA
1,2-Dichloroethene	12.000	ug/kg C UJ	NA
1,2-Dichloropropane	12.000	ug/kg C UJ	NA
2-Butanone	12.000	ug/kg C UJ	NA
2-Hexanone	12.000	ug/kg C UJ	NA
4-Methyl-2-pentanone	12.000	ug/kg C UJ	NA
Acetone	12.000	ug/kg C UJ	NA
Benzene	12.000	ug/kg C UJ	NA

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-14	RESULTS UNITS L VQ			LSP-TR-01	RESULTS UNITS L VQ			LSP-TR-01	RESULTS UNITS L VQ		
SAMPLE NUMBER	114516				114581				114589			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	05/05/93				05/11/93				05/16/93			
<u>Volatile Organics</u>												
Bromodichloromethane	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Bromoform	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Carbon Tetrachloride	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Carbon disulfide	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Chlorobenzene	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Chloroform	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Dibromochloromethane	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Ethylbenzene	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Methylene chloride	29.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Styrene	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Tetrachloroethene	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Toluene	17.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Trichloroethene	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Vinyl Acetate	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Vinyl chloride	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
Xylenes, Total	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
cis-1,3-Dichloropropene	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
trans-1,3-Dichloropropene	12.000	ug/kg	C	U	NA				13.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	400.000	ug/kg	C	UJ	NA				440.000	ug/kg	C	U
1,2-Dichlorobenzene	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
1,3-Dichlorobenzene	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
1,4-Dichlorobenzene	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
2,4,5-Trichlorophenol	970.000	ug/kg	C	U	NA				1100.000	ug/kg	C	U
2,4,6-Trichlorophenol	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
2,4-Dichlorophenol	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
2,4-Dimethylphenol	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
2,4-Dinitrophenol	970.000	ug/kg	C	R	NA				1100.000	ug/kg	C	U
2,4-Dinitrotoluene	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
2,6-Dinitrotoluene	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
2-Benzyl-4-chlorophenol	400.000	ug/kg	C	U	NA				NA			
2-Chloronaphthalene	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
2-Chlorophenol	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
2-Methylnaphthalene	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
2-Methylphenol	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U
2-Nitroaniline	970.000	ug/kg	C	U	NA				1100.000	ug/kg	C	U
2-Nitrophenol	400.000	ug/kg	C	U	NA				440.000	ug/kg	C	U

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-14	LSP-TR-01			LSP-TR-01			
SAMPLE NUMBER	114516	114581	0-0.5	0-0.5	114589	0-0.5	05/16/93	
SAMPLING DATE	05/05/93	05/11/93						
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>								
3,3'-Dichlorobenzidine	400.000	ug/kg	C	U	NA			
3-Nitroaniline	970.000	ug/kg	C	U	NA	1100.000	ug/kg	C
4,6-Dinitro-2-methylphenol	970.000	ug/kg	C	U	NA	1100.000	ug/kg	C
4-Bromophenyl phenyl ether	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
4-Chloro-3-methylphenol	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
4-Chlorophenylphenyl ether	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
4-Methylphenol	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
4-Nitroaniline	970.000	ug/kg	C	U	NA	1100.000	ug/kg	C
4-Nitrophenoil	970.000	ug/kg	C	U	NA	1100.000	ug/kg	C
Acenaphthene	74.000	ug/kg	C	U	NA	440.000	ug/kg	C
Acenaphthylene	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Anthracene	240.000	ug/kg	C	U	NA	440.000	ug/kg	C
Benzo(a)anthracene	910.000	ug/kg	C	U	NA	440.000	ug/kg	C
Benzo(a)pyrene	1100.000	ug/kg	C	U	NA	440.000	ug/kg	C
Benzo(b)fluoranthene	1000.000	ug/kg	C	U	NA	55.000	ug/kg	C
Benzo(g,h,i)perylene	630.000	ug/kg	C	U	NA	440.000	ug/kg	C
Benzo(k)fluoranthene	800.000	ug/kg	C	U	NA	440.000	ug/kg	C
Benzoic acid	1900.000	ug/kg	C	U	NA	NA		
Benzyl alcohol	400.000	ug/kg	C	U	NA	NA		
Butyl benzyl phthalate	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Carbazole	140.000	ug/kg	C	U	NA	440.000	ug/kg	C
Chrysene	1100.000	ug/kg	C	U	NA	57.000	ug/kg	C
Di-n-butyl phthalate	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Di-n-octyl phthalate	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Dibenzo(a,h)anthracene	320.000	ug/kg	C	U	NA	440.000	ug/kg	C
Dibenzofuran	42.000	ug/kg	C	U	NA	440.000	ug/kg	C
Diethyl phthalate	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Dimethyl phthalate	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Fluoranthene	2100.000	ug/kg	C	U	NA	77.000	ug/kg	C
Fluorene	79.000	ug/kg	C	U	NA	440.000	ug/kg	C
Hexachlorobenzene	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Hexachlorobutadiene	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Hexachlorocyclopentadiene	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Hexachloroethane	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Indeno(1,2,3-cd)pyrene	720.000	ug/kg	C	U	NA	440.000	ug/kg	C
Isophorone	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
N-Nitroso-di-n-propylamine	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
N-Nitrosodiphenylamine	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Naphthalene	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Nitrobenzene	400.000	ug/kg	C	U	NA	440.000	ug/kg	C
Pentachlorophenol	970.000	ug/kg	C	U	NA	1100.000	ug/kg	C
Phenanthrene	1600.000	ug/kg	C	U	NA	440.000	ug/kg	C

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-14	LSP-TR-01	LSP-TR-01		
SAMPLE NUMBER	114516	114581	114589		
SAMPLING DATE	0-0.5 05/05/93	0-0.5 05/11/93	0-0.5 05/16/93		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
<u>Semivolatile Organics</u>					
Phenol	400.000	ug/kg C U	NA	440.000	ug/kg C U
Pyrene	1900.000	ug/kg C U	NA	64.000	ug/kg C U
bis(2-Chloroethoxy)methane	400.000	ug/kg C U	NA	440.000	ug/kg C U
bis(2-Chloroethyl)ether	400.000	ug/kg C U	NA	440.000	ug/kg C U
bis(2-Chloroisopropyl) ether	400.000	ug/kg C U	NA	440.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	400.000	ug/kg C U	NA	440.000	ug/kg C U
p-Chloroaniline	400.000	ug/kg C U	NA	440.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>					
4,4'-DDD	20.000	ug/kg C U	4.100	ug/kg C U	
4,4'-DDE	20.000	ug/kg C U	4.100	ug/kg C U	
4,4'-DDT	20.000	ug/kg C U	4.100	ug/kg C U	
Aldrin	10.000	ug/kg C U	2.100	ug/kg C U	
Aroclor-1016	200.000	ug/kg C U	41.000	ug/kg C U	
Aroclor-1221	400.000	ug/kg C U	83.000	ug/kg C U	
Aroclor-1232	200.000	ug/kg C U	41.000	ug/kg C U	
Aroclor-1242	200.000	ug/kg C U	41.000	ug/kg C U	
Aroclor-1248	200.000	ug/kg C U	41.000	ug/kg C U	
Aroclor-1254	90.000	ug/kg C U	41.000	ug/kg C U	
Aroclor-1260	200.000	ug/kg C U	41.000	ug/kg C U	
Dieledrin	20.000	ug/kg C U	4.100	ug/kg C U	
Endosulfan II	20.000	ug/kg C U	4.100	ug/kg C U	
Endosulfan sulfate	20.000	ug/kg C U	4.100	ug/kg C U	
Endosulfan-I	10.000	ug/kg C U	2.100	ug/kg C U	
Endrin	20.000	ug/kg C U	4.100	ug/kg C U	
Endrin aldehyde	20.000	ug/kg C U	4.100	ug/kg C U	
Endrin ketone	20.000	ug/kg C U	4.100	ug/kg C U	
Heptachlor	10.000	ug/kg C U	2.100	ug/kg C U	
Heptachlor epoxide	10.000	ug/kg C U	2.100	ug/kg C U	
Methoxychlor	100.000	ug/kg C U	21.000	ug/kg C U	
Toxaphene	1000.000	ug/kg C U	210.000	ug/kg C U	
alpha-BHC	10.000	ug/kg C U	2.100	ug/kg C U	
alpha-Chlordane	10.000	ug/kg C U	2.100	ug/kg C U	
beta-BHC	10.000	ug/kg C U	2.100	ug/kg C U	
delta-BHC	10.000	ug/kg C U	2.100	ug/kg C U	
gamma-BHC (Lindane)	10.000	ug/kg C U	2.100	ug/kg C U	
gamma-Chlordane	10.000	ug/kg C U	2.100	ug/kg C U	

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-TR-02				LSP-SS-09				LSP-SS-10			
SAMPLE NUMBER	114591				114598				114881			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	5320.000	mg/kg	C	-	4480.000	mg/kg	D	-	6140.000	mg/kg	C	J
Antimony	1.200	mg/kg	C	UJ	1.800	mg/kg	D	-	1.900	mg/kg	C	UJ
Arsenic	6.000	mg/kg	C	-	3.500	mg/kg	D	-	4.300	mg/kg	C	UJ
Barium	62.000	mg/kg	C	UJ	63.300	mg/kg	D	-	79.100	mg/kg	C	UJ
Beryllium	0.460	mg/kg	C	UJ	0.700	mg/kg	D	-	0.880	mg/kg	C	UJ
Cadmium	1.200	mg/kg	C	UJ	1.800	mg/kg	D	-	1.900	mg/kg	C	UJ
Calcium	81500.000	mg/kg	C	-	279000.000	mg/kg	D	-	350000.000	mg/kg	C	UJ
Chromium	22.900	mg/kg	C	-	3.500	mg/kg	D	-	3.800	mg/kg	C	UJ
Cobalt	5.100	mg/kg	C	-	4.100	mg/kg	D	-	3.800	mg/kg	C	UJ
Copper	31.800	mg/kg	C	UJ	18.500	mg/kg	D	-	16.500	mg/kg	C	UJ
Cyanide	0.120	mg/kg	C	UJ	0.190	mg/kg	D	-	0.440	mg/kg	C	UJ
Iron	26200.000	mg/kg	C	-	3960.000	mg/kg	D	-	4890.000	mg/kg	C	UJ
Lead	240.000	mg/kg	C	-	1.600	mg/kg	D	-	1.500	mg/kg	C	UJ
Magnesium	16200.000	mg/kg	C	-	14700.000	mg/kg	D	-	19900.000	mg/kg	C	UJ
Manganese	460.000	mg/kg	C	-	523.000	mg/kg	D	-	671.000	mg/kg	C	UJ
Mercury	0.080	mg/kg	C	UJ	0.130	mg/kg	D	-	0.180	mg/kg	C	UJ
Molybdenum	9.700	mg/kg	C	-	3.500	mg/kg	D	-	3.800	mg/kg	C	UJ
Nickel	16.300	mg/kg	C	-	7.000	mg/kg	D	-	7.700	mg/kg	C	UJ
Potassium	891.000	mg/kg	C	-	65.200	mg/kg	D	-	58.700	mg/kg	C	UJ
Selenium	0.430	mg/kg	C	UJ	0.680	mg/kg	D	-	0.740	mg/kg	C	UJ
Silicon	485.000	mg/kg	C	-	915.000	mg/kg	D	-	1160.000	mg/kg	C	UJ
Silver	7.100	mg/kg	C	-	3.500	mg/kg	D	-	3.800	mg/kg	C	UJ
Sodium	184.000	mg/kg	C	-	224.000	mg/kg	D	-	410.000	mg/kg	C	UJ
Thallium	0.430	mg/kg	C	UJ	0.680	mg/kg	D	-	0.740	mg/kg	C	UJ
Vanadium	25.100	mg/kg	C	-	3.600	mg/kg	D	-	3.800	mg/kg	C	UJ
Zinc	94.400	mg/kg	C	-	35.500	mg/kg	D	-	33.600	mg/kg	C	J
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
1,1,2,2-Tetrachloroethane	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
1,1,2-Trichloroethane	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
1,1-Dichloroethane	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
1,1-Dichloroethene	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
1,2-Dichloroethane	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
1,2-Dichloroethene	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
2-Butanone	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
2-Hexanone	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
4-Methyl-2-pentanone	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
Acetone	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ
Benzene	12.000	ug/kg	C	UJ	19.000	ug/kg	D	UJ	21.000	ug/kg	C	UJ

TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-TR-02	LSP-SS-09	LSP-SS-10			
SAMPLE NUMBER	114591	114598	114881			
SAMPLING DATE	0-0.5 05/16/93	0-0.5 05/19/93	0-0.5 06/14/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Bromoform	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Bromomethane	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Carbon Tetrachloride	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Carbon disulfide	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Chlorobenzene	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Chloroethane	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Chloroform	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Chloromethane	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Dibromochloromethane	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Ethylbenzene	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Methylene chloride	16.000	ug/kg C U	29.000	ug/kg D U	21.000	ug/kg C U
Styrene	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Tetrachloroethene	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Toluene	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Trichloroethene	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Vinyl Acetate	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Vinyl chloride	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
Xylenes, Total	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
cis-1,3-Dichloropropene	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
trans-1,3-Dichloropropene	12.000	ug/kg C U	19.000	ug/kg D U	21.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C U
1,2-Dichlorobenzene	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C U
1,3-Dichlorobenzene	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C U
1,4-Dichlorobenzene	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C U
2,4,5-Trichlorophenol	1000.000	ug/kg C U	1600.000	ug/kg D U	1700.000	ug/kg C R
2,4,6-Trichlorophenol	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C R
2,4-Dichlorophenol	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C R
2,4-Dimethylphenol	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C R
2,4-Dinitrophenol	1000.000	ug/kg C U	1600.000	ug/kg D U	3300.000	ug/kg C R
2,4-Dinitrotoluene	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C U
2,6-Dinitrotoluene	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C U
2-Benzyl-4-chlorophenol	NA		NA		690.000	ug/kg C R
2-Chloronaphthalene	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C U
2-Chlorophenol	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C R
2-Methylnaphthalene	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C U
2-Methylphenol	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C R
2-Nitroaniline	1000.000	ug/kg C U	1600.000	ug/kg D U	1700.000	ug/kg C U
2-Nitrophenol	430.000	ug/kg C U	640.000	ug/kg D U	690.000	ug/kg C R

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FEMP-OOU2-4 DRAFT
February 18, 1994

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TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-TR-02				LSP-SS-09				LSP-SS-10			
SAMPLE NUMBER	114591				114598				114881			
SAMPLING DATE	0-0.5				0-0.5				0-0.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
3-Nitroaniline	1000.000	ug/kg	C	U	1600.000	ug/kg	D	U	1700.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	1000.000	ug/kg	C	U	1600.000	ug/kg	D	U	1700.000	ug/kg	C	R
4-Bromophenyl phenyl ether	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
4-Chloro-3-methylphenol	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
4-Chlorophenylphenyl ether	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
4-Methylphenol	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	R
4-Nitroaniline	1000.000	ug/kg	C	U	1600.000	ug/kg	D	U	1700.000	ug/kg	C	U
4-Nitrophenol	1000.000	ug/kg	C	U	1600.000	ug/kg	D	U	1700.000	ug/kg	C	C
Acenaphthene	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Acenaphthylene	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Anthracene	56.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Benzo(a)anthracene	610.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Benzo(a)pyrene	350.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Benzo(b)fluoranthene	500.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Benzo(g,h,i)perylene	170.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Benzo(k)fluoranthene	450.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Benzoic acid	NA				NA				3300.000	ug/kg	C	U
Benzyl alcohol	NA				NA				690.000	ug/kg	C	U
Butyl benzyl phthalate	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Carbazole	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Chrysene	660.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Di-n-butyl phthalate	430.000	ug/kg	C	U	120.000	ug/kg	D	U	690.000	ug/kg	C	U
Di-n-octyl phthalate	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Dibenzo(a,h)anthracene	110.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Dibenzoofuran	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Diethyl phthalate	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Dimethyl phthalate	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Fluoranthene	1300.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Fluorene	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Hexachlorobenzene	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Hexachlorobutadiene	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Hexachlorocyclopentadiene	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Hexachloroethane	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	210.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Isophorone	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
N-Nitrosodimethylamine	NA				NA				690.000	ug/kg	C	U
N-Nitrosodiphenylamine	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Naphthalene	430.000	ug/kg	C	U	640.000	ug/kg	D	U	690.000	ug/kg	C	U
Nitrobenzene	1000.000	ug/kg	C	U	1600.000	ug/kg	D	U	1700.000	ug/kg	C	U
Pentachlorophenol												

TABLE D-3A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-TR-02	LSP-SS-09				LSP-SS-10			
SAMPLE NUMBER	114591	114598	0-0.5	0-0.5	05/19/93	114881	0-0.5	06/14/93	
SAMPLING DATE	05/16/93								
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ		RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>									
Phenanthrene	250.000	ug/kg	C	J		640.000	ug/kg	D	U
Phenol	430.000	ug/kg	C	U		640.000	ug/kg	D	U
Pyrene	1000.000	ug/kg	C	-		640.000	ug/kg	D	U
Tributyl phosphate	NA					NA			
bis(2-Chloroethoxy)methane	430.000	ug/kg	C	U		640.000	ug/kg	D	U
bis(2-Chloroethyl)ether	430.000	ug/kg	C	U		640.000	ug/kg	D	U
bis(2-Chloroisopropyl) ether	430.000	ug/kg	C	U		640.000	ug/kg	D	U
bis(2-Ethylhexyl) phthalate	430.000	ug/kg	C	U		390.000	ug/kg	D	J
p-Chloroaniline	430.000	ug/kg	C	U		640.000	ug/kg	D	U
<u>Pesticide Organics/PCBs</u>									
4,4'-DDD	4.200	ug/kg	C	U		6.400	ug/kg	D	U
4,4'-DDE	4.200	ug/kg	C	UJ		6.400	ug/kg	D	U
4,4'-DDT	4.200	ug/kg	C	U		6.400	ug/kg	D	U
Aldrin	2.200	ug/kg	C	U		3.300	ug/kg	D	U
Aroclor-1016	42.000	ug/kg	C	U		64.000	ug/kg	D	U
Aroclor-1221	85.000	ug/kg	C	U		130.000	ug/kg	D	U
Aroclor-1232	42.000	ug/kg	C	U		64.000	ug/kg	D	U
Aroclor-1242	42.000	ug/kg	C	U		64.000	ug/kg	D	U
Aroclor-1248	42.000	ug/kg	C	U		64.000	ug/kg	D	U
Aroclor-1254	42.000	ug/kg	C	U		64.000	ug/kg	D	U
Aroclor-1260	42.000	ug/kg	C	U		64.000	ug/kg	D	U
Dieldrin	4.200	ug/kg	C	U		6.400	ug/kg	D	U
Endosulfan II	4.200	ug/kg	C	U		6.400	ug/kg	D	U
Endosulfan sulfate	4.200	ug/kg	C	U		6.400	ug/kg	D	U
Endosulfan-I	2.200	ug/kg	C	U		3.300	ug/kg	D	U
Endrin	4.200	ug/kg	C	U		6.400	ug/kg	D	U
Endrin aldehyde	4.200	ug/kg	C	U		6.400	ug/kg	D	U
Endrin ketone	4.200	ug/kg	C	U		6.400	ug/kg	D	U
Heptachlor	2.200	ug/kg	C	U		3.300	ug/kg	D	U
Heptachlor epoxide	2.200	ug/kg	C	U		3.300	ug/kg	D	U
Methoxychlor	22.000	ug/kg	C	U		33.000	ug/kg	D	U
Toxaphene	220.000	ug/kg	C	U		330.000	ug/kg	D	U
alpha-BHC	2.200	ug/kg	C	U		3.300	ug/kg	D	U
alpha-Chlordane	2.200	ug/kg	C	U		3.300	ug/kg	D	U
beta-BHC	2.200	ug/kg	C	U		3.300	ug/kg	D	U
delta-BHC	2.200	ug/kg	C	UJ		3.300	ug/kg	D	U
gamma-BHC (Lindane)	2.200	ug/kg	C	U		3.300	ug/kg	D	U
gamma-Chlordane	2.200	ug/kg	C	U		3.300	ug/kg	D	U

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TABLE D-3B
LIME SLUDGE PONDS
TENTATIVELY IDENTIFIED COMPOUNDS
SURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
114474	LSP-SS-04	methane, thiobis	21	ug/kg
114498	LSP-SS-11	3-hexen-2-one, 5-methyl-	15	ug/kg
114498	LSP-SS-11	hexanedioic acid, dioctyl es	25	ug/kg
114501	LSP-SS-12	tetratetracontane	110	ug/kg
114501	LSP-SS-12	tetratetracontane	230	ug/kg
114501	LSP-SS-12	hexanedioic acid, dioctyl es	680	ug/kg
114501	LSP-SS-12	heptadecane, 2,6,10,15-tetra	220	ug/kg
114501	LSP-SS-12	tetratetracontane	170	ug/kg
114501	LSP-SS-12	tetratetracontane	180	ug/kg
114501	LSP-SS-12	tritetracontane	340	ug/kg
114501	LSP-SS-12	tritetracontane	780	ug/kg
114503	LSP-SS-12	3-hexen-2-one, 5-methyl-	450	ug/kg
114503	LSP-SS-12	tetratetracontane	88	ug/kg
114503	LSP-SS-12	tetratetracontane	140	ug/kg
114503	LSP-SS-12	hexanedioic acid, mono(2-eth	2700	ug/kg
114503	LSP-SS-12	tetratetracontane	160	ug/kg
114498	LSP-SS-11	3-hexen-2-one, 5-methyl-	1300	ug/kg
114498	LSP-SS-11	ethanone, 1-oxiranyl-	170	ug/kg
114498	LSP-SS-11	1,2-ethanediol, monoacetate	84	ug/kg
114498	LSP-SS-11	1,2-benzenedicarboxylic acid	180	ug/kg
114498	LSP-SS-11	anthracene, 2-methyl-	110	ug/kg
114498	LSP-SS-11	4h-cyclopenta def phenanthre	260	ug/kg
114498	LSP-SS-11	11h-benzo-a-fluorene	220	ug/kg
114498	LSP-SS-11	11h-benzo-a-fluorene	130	ug/kg
114498	LSP-SS-11	pyrene, 1-methyl-	91	ug/kg
114498	LSP-SS-11	tritetracontane	100	ug/kg
114498	LSP-SS-11	tetratetracontane	200	ug/kg
114498	LSP-SS-11	3,4-dihydrocyclopenta(cd)pyr	97	ug/kg
114498	LSP-SS-11	tritetracontane	100	ug/kg
114498	LSP-SS-11	eicosane, 2-methyl-	150	ug/kg
114498	LSP-SS-11	octadecane, 9-ethyl-9-heptyl	380	ug/kg
114516	LSP-SS-14	3-hexen-2-one, 5-methyl-	960	ug/kg
114516	LSP-SS-14	ethanone, 1-oxiranyl-	120	ug/kg
114516	LSP-SS-14	anthracene, 2-methyl-	110	ug/kg
114516	LSP-SS-14	4h-cyclopenta def phenanthre	330	ug/kg
114516	LSP-SS-14	9,10-anthracenedione	150	ug/kg
114516	LSP-SS-14	11h-benzo-a-fluorene	130	ug/kg
114516	LSP-SS-14	tetratetracontane	140	ug/kg
114516	LSP-SS-14	11h-benzo-a-fluorene	280	ug/kg
114516	LSP-SS-14	11h-benzo-a-fluorene	120	ug/kg
114516	LSP-SS-14	tetratetracontane	240	ug/kg
114516	LSP-SS-14	tetratetracontane	440	ug/kg
114516	LSP-SS-14	3,4-dihydrocyclopenta(cd)pyr	130	ug/kg
114516	LSP-SS-14	tetratetracontane	210	ug/kg
114516	LSP-SS-14	tetratetracontane	200	ug/kg
114516	LSP-SS-14	tritetracontane	160	ug/kg
114516	LSP-SS-14	eicosane, 2-methyl-	190	ug/kg
114516	LSP-SS-14	octadecane, 9-ethyl-9-heptyl	390	ug/kg
114591	LSP-SS-02	cyclotetrasiloxane, octameth	150	ug/kg
114591	LSP-SS-02	2-cyclohexen-1-one, 3,5-dime	270	ug/kg
114591	LSP-SS-02	1,2-benzenedicarboxylic acid	130	ug/kg
114591	LSP-SS-02	11h-benzo-a-fluorene	99	ug/kg
114591	LSP-SS-02	7h-benz-de-anthracen-7-one	140	ug/kg

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TABLE D-3B
LIME SLUDGE PONDS
TENTATIVELY IDENTIFIED COMPOUNDS
SURFACE SOIL

Sample Number	Sample Location	Parameter	Result	Units
114591	LSP-SS-02	7h-benz-de-anthracen-7-one	130	ug/kg
114591	LSP-SS-02	pentacosane	350	ug/kg
114591	LSP-SS-02	benzo-j-fluoranthene	310	ug/kg
114589	LSP-SS-01	2-cyclohexen-1-one, 3,5-dime	170	ug/kg
114589	LSP-SS-01	ethanone, 1-oxiranyl-	210	ug/kg
114589	LSP-SS-01	2h-1-benzopyran-2-one	89	ug/kg
114589	LSP-SS-01	glycene, n-methyl-n-(1-oxodo	130	ug/kg
114589	LSP-SS-01	1,2-benzenedicarboxylic acid	250	ug/kg
114589	LSP-SS-01	pentadecane	170	ug/kg
114589	LSP-SS-01	pentadecane	540	ug/kg
114589	LSP-SS-01	pentadecane	910	ug/kg

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TABLE D-4
LIME SLUDGE PONDS
CIS SURFACE SOIL RADIOLOGICAL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

FEMP ID #	SS46187			SS23012			SS23013			
	Depth	0-6"			0-6"			0-6"		
		Date	02/13/87			11/06/86			11/06/86	
	Isotope	Activity (pCi/g)	Uncertainty	Validation Qualifier	Activity (pCi/g)	Uncertainty	Lab Qualifier	Activity (pCi/g)	Uncertainty	Lab Qualifier
D-4-1	Cesium-137	0.58	±0.27		0.60	NA	<	2.30	.60	
0707	Neptunium-237	0.34	NA	U	0.10	NA	<	2.70	.50	
	Lead-210	44.00	3.00		30.00	2.00		12.00	1.00	
	Plutonium-239/240	0.18	NA	U	0.10	NA	<	0.20	.10	
	Plutonium-238	0.31	±0.17	J	0.10	NA	<	0.30	.10	
	Radium-226				29.39	1.93		9.64	1.30	
	Radium-228									
	Ruthenium-106	2.04	NA	U	3.00	NA	<	2.00	NA	<
	Strontium-90	0.3	NA	U	0.50	NA	<	0.70	NA	<
	Technetium-99	0.9	NA	U	.20	NA	<	91.00	4.00	
	Thorium-230	31.4	±1.04	J	13.00	1.00		21.00	1.00	
	Thorium-232	2.80	±0.31	J	.20	.10		.50	.10	
	Thorium-228	3.42	±0.35	J	.40	.10		3.30	.30	
	Uranium-238	86.5	±1.05	J	27.00	1.00		83.00	2.00	
	Uranium-234	23.8	±0.55	J	25.00	1.00		84.00	2.00	
	Uranium-235	1.78	±0.15	J	1.00	.10		3.80	.30	

^aLaboratory Qualifiers, no data validation was performed on screening data.

^bNA = Not applicable

^c< = Less than

TABLE D-5
LIME SLUDGE PONDS
SURFACE MEDIA ANALYSES ENVIRONMENTAL SURVEY
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Analyte	616 FEO616SS1B	617 FEO617SS1B	617 FEO617SS2B	618 FEO618SS1B	619 FEO619SS1B
Asbestos	NA	NA	NA	NA	NA
TCLP METALS (mg/L)					
Arsenic	<0.5	<0.5	<0.5	<0.5	<0.5
Barium	0.36	0.28	0.27	0.29	0.29
Cadmium	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	0.05	0.04	0.04	0.04	0.03
Lead	<0.3	<0.3	<0.3	<0.3	<0.3
Mercury	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	<0.5	<0.5	<0.5	<0.5	<0.5
Silver	<0.1	<0.1	<0.1	<0.1	<0.1
Analyte	616 FEO616SS3B	617 FEO617SS3B	618 FEO618SS3B	619 FEO619SS3B	
VOLATILE ORGANIC COMPOUNDS (µg/kg)					
1,1-Dichloroethane	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	14	9	9	
1,1,2-Trichloroethane	<5	<5	<5	<5	
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	
1,2-Dichloropropane	<5	<5	<5	<5	
1,2-Dichloroethane	<5	<5	<5	<5	
2-Chloroethylvinyl ether	<10	<10	<10	<10	
2-Butanone	<10	<10	<10	<10	
2-Hexanone	<10	<10	<10	<10	
4-Methyl-2-pentanone	<10	<10	<10	<10	
Acetone	18 B	19 B	21 B	25 B	
Benzene	<5	<5	<5	<5	
Bromodichloromethane	<5	<5	<5	<5	
Bromoform	<5	<5	<5	<5	
Bromomethane	<10	<10	<10	<10	
Carbon tetrachloride	<5	<5	<5	<5	
Carbon disulfide	<5	<5	<5	<5	
Chlorobenzene	<5	<5	<5	<5	
Chloroethane	<10	<10	<10	<10	
Chloroform	7	11	7	8	
Chloromethane	<10	<10	<10	<10	
Cis-1,3-dichloropropene	<5	<5	<5	<5	
Dibromochloromethane	<5	<5	<5	<5	
Ethyl benzene	<5	<5	<5	<5	
Methylene chloride	8 B	12 B	14 B	22 B	
Styrene	<5	<5	<5	<5	
Tetrachloroethene	<5	<5	<5	<5	
Toluene	3 BJ	3 BJ	3 BJ	3 BJ	
Total xylenes	<5	<5	<5	<5	
Trans-1,3-dichloropropene	<5	<5	<5	<5	
Trans-1,2-dichloroethene	<5	<5	<5	<5	
Trichloroethene	<5	<5	<5	<5	

See notes at end of table

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(Continued)

Analyte	616 FEO616SS3B	617 FEO617SS3B	618 FEO618SS3B	619 FEO619SS3B
PCBs (mg/kg)				
Aroclor-1242	NA	NA	NA	NA
Aroclor-1248	NA	NA	NA	NA
Aroclor-1254	NA	NA	NA	NA
Aroclor-1260	NA	NA	NA	NA

Analyte	616 FEO617SS2B	617 FEO617SS1B	617 FEO617SS2B	618 FEO619SS2B	619 FEO619SS2B
RADIONUCLIDES (pCi/g)					
Bismuth-214	I	0.4±0.09	NA	I	0.27±0.04
Cesium-137	I	0.27±0.04	NA	I	0.21±0.02
Radium-226	I	0.38±0.07	NA	I	0.27±0.03
Thorium-228	I	I	NA	I	I
Thorium-232	I	I	NA	I	I
Uranium-235	N	NA	0.18±0.02	N	0.44±0.02
Uranium-238	N	NA	1.6±0.3	41±6	22±4
Total uranium (mg/kg)	14	19	17	36	28

NA = Not Analyzed

N = Nuclide not identified by GAMANAL analysis as being present in the sample; no value reported.

I = Nuclide identified by GAMANAL analysis of sample spectrum, but values did not exceed room background at the 95% confidence level; no value reported

B = Analyte was found in the blank as well as the sample

J = Estimated value of compound present but less than the specified detection limit

G = Gamma Spectroscopy Analysis

ND = None detected

TABLE D-6A
LIME SLUDGE PONDS
RI/FS SUSBURFACE SOIL RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
SAMPLE NUMBER	1039 008439 12 - 13.5			1041 008448 0 - 1.5			2042 008869 3 - 4.5		
SAMPLING DATE	04/08/88			04/10/88			04/11/88		
RADIOLOGICAL PARAMETERS									
CS-137	0.200	pCi/g	UJ	0.200	pCi/g	UJ	0.200	pCi/g	UJ
NP-237	0.600	pCi/g	U	0.600	pCi/g	U	0.600	pCi/g	U
PU-238	0.600	pCi/g	U	0.600	pCi/g	U	0.600	pCi/g	U
PU-239/240	0.600	pCi/g	U	0.600	pCi/g	U	0.600	pCi/g	U
RA-226	0.900	pCi/g	J	1.100	pCi/g	J	1.000	pCi/g	C
RA-228	0.500	pCi/g	UJ	0.900	pCi/g	J	1.200	pCi/g	C
RU-106	1.000	pCi/g	UJ	1.000	pCi/g	UJ	1.000	pCi/g	C
SR-90	0.500	pCi/g	U	0.500	pCi/g	U	6.000	pCi/g	C
TC-99	0.900	pCi/g	U	0.900	pCi/g	NV	0.900	pCi/g	C
TH-228	0.700	pCi/g	J	1.300	pCi/g	-	1.000	pCi/g	C
TH-230	1.500	pCi/g	-	3.800	pCi/g	-	2.300	pCi/g	C
TH-232	0.900	pCi/g	-	1.500	pCi/g	-	1.300	pCi/g	C
U-234	0.800	pCi/g	J	3.800	pCi/g	J	0.800	pCi/g	C
U-235/236	0.600	pCi/g	UJ	0.600	pCi/g	UJ	0.600	pCi/g	C
U-238	0.700	pCi/g	J	5.900	pCi/g	J	0.900	pCi/g	C

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TABLE D-6A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2042 008509 45 - 46.5	RESULTS	UNITS	VQ	1717 067902 0 - 2 11/06/91	RESULTS	UNITS	VQ	1716 067904 0 - 2 11/06/91		
SAMPLING DATE	04/12/88										
RADIOLOGICAL PARAMETERS											
CS-137	0.200	pCi/g	UJ		0.200	pCi/g	U		0.200	pCi/g	U
GROSS ALPHA	NA				12.600	pCi/g	NV		5.660	pCi/g	NV
GROSS BETA	NA				5.800	pCi/g	NV		5.700	pCi/g	NV
NP-237	0.600	pCi/g	UJ		NA				NA		
PU-238	0.600	pCi/g	UJ		0.600	pCi/g	UJ		0.600	pCi/g	UJ
PU-239/240	0.600	pCi/g	CCC		0.600	pCi/g	R		0.600	pCi/g	R
RA-226	0.400	pCi/g	CCC		0.350	pCi/g	J		0.300	pCi/g	
RA-228	0.500	pCi/g	CCC		0.500	pCi/g	U		0.500	pCi/g	
RU-106	1.000	pCi/g	CCC		1.000	pCi/g	U		1.000	pCi/g	
SR-90	0.500	pCi/g	CCC		0.500	pCi/g	U		0.500	pCi/g	
TC-99	0.900	pCi/g	CCC		0.900	pCi/g	U		0.900	pCi/g	
TH-228	0.600	pCi/g	CCC		1.460	pCi/g	U		1.040	pCi/g	
TH-230	1.300	pCi/g	CCC		1.200	pCi/g	U		0.600	pCi/g	
TH-232	0.600	pCi/g	CCC		0.600	pCi/g	U		0.600	pCi/g	
TH-TOTAL	NA				1.200	ug/g	U		1.000	ug/g	
U-234	0.600	pCi/g	U		0.866	pCi/g	U		1.570	pCi/g	
U-235	NA				0.600	pCi/g	U		0.600	pCi/g	
U-235/236	0.600	pCi/g	U		0.600	pCi/g	U		0.600	pCi/g	
U-238	0.600	pCi/g	U		0.712	pCi/g	U		1.330	pCi/g	
U-TOTAL	NA				2.080	mg/kg	U		5.490	mg/kg	

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TABLE D-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1717		1716	
SAMPLE NUMBER	067902		067904	
SAMPLING DATE	0-2		0-2	
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Inorganics</u>				
Aluminum	2700.000	mg/kg	D	-
Antimony	20.000	mg/kg	D	J
Arsenic	1.700	mg/kg	D	J
Barium	63.400	mg/kg	D	J
Beryllium	0.650	mg/kg	D	J
Boron	28.900	mg/kg	D	J
Cadmium	2.500	mg/kg	D	J
Calcium	339000.000	mg/kg	D	J
Chromium	28.100	mg/kg	D	J
Cobalt	3.900	mg/kg	D	J
Copper	8.400	mg/kg	D	J
Cyanide	1.700	mg/kg	D	J
Iron	3240.000	mg/kg	D	J
Lead	0.980	mg/kg	D	J
Magnesium	13300.000	mg/kg	D	J
Manganese	499.000	mg/kg	D	J
Mercury	0.140	mg/kg	D	J
Molybdenum	5.700	mg/kg	D	J
Nickel	9.000	mg/kg	D	J
Potassium	22.200	mg/kg	D	J
Selenium	0.450	mg/kg	D	J
Silicon	3220.000	mg/kg	D	J
Silver	21.700	mg/kg	D	J
Sodium	327.000	mg/kg	D	J
Thallium	0.450	mg/kg	D	J
Tin	44.500	mg/kg	D	J
Vanadium	17.100	mg/kg	D	J
Zinc	8.200	mg/kg	D	J
<u>Volatile Organics</u>				
1,1,1,2-Tetrachloroethane	17.000	ug/kg	D	U
1,1,1-Trichloroethane	8.000	ug/kg	D	U
1,1,2,2-Tetrachloroethane	8.000	ug/kg	D	U
1,1,2-Trichloroethane	8.000	ug/kg	D	U
1,1-Dichloroethane	8.000	ug/kg	D	U
1,1-Dichloroethene	8.000	ug/kg	D	U
1,2,3-Trichloropropene	17.000	ug/kg	C	U
1,2-Dibromo-3-chloropropane	17.000	ug/kg	D	U
1,2-Dibromoethane	17.000	ug/kg	D	U
1,2-Dichloroethane	8.000	ug/kg	D	U
1,2-Dichloroethene	8.000	ug/kg	D	U

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TABLE D-6A
(Continued)

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PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1717	1716
SAMPLE NUMBER	067902	067904
SAMPLING DATE	0-2 11/06/91	0-2 11/06/91
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ
<u>Volatile Organics</u>		
1,2-Dichloropropane	8.000	ug/kg D U
1,4-Dioxane	330.000	ug/kg D R
2-Butanone	17.000	ug/kg D U
2-Chloro-1,3-butadiene	17.000	ug/kg D U
2-Hexanone	2.000	ug/kg D U
3-Chloropropene	17.000	ug/kg D U
4-Methyl-2-pentanone	17.000	ug/kg D U
Acetone	17.000	ug/kg D U
Acetonitrile	33.000	ug/kg D U
Acrolein	33.000	ug/kg D U
Acrylonitrile	33.000	ug/kg D U
Benzene	8.000	ug/kg D U
Bromodichloromethane	8.000	ug/kg D U
Bromoform	8.000	ug/kg D U
Bromomethane	17.000	ug/kg D U
Carbon Tetrachloride	8.000	ug/kg D U
Carbon disulfide	8.000	ug/kg D U
Chlorobenzene	8.000	ug/kg D U
Chloroethane	17.000	ug/kg D U
Chloroform	8.000	ug/kg D U
Chloromethane	17.000	ug/kg D U
Dibromochloromethane	8.000	ug/kg D U
Dibromomethane	17.000	ug/kg D U
Dichlorodifluoromethane	330.000	ug/kg D U
Ethyl cyanide	17.000	ug/kg D U
Ethyl methacrylate	17.000	ug/kg D U
Ethylbenzene	8.000	ug/kg D U
Iodomethane	17.000	ug/kg D U
Isobutyl alcohol	330.000	ug/kg D U
Methacrylonitrile	17.000	ug/kg D U
Methyl methacrylate	17.000	ug/kg D U
Methylene chloride	8.000	ug/kg D U
Pyridine	1100.000	ug/kg D U
Styrene	8.000	ug/kg D U
Tetrachloroethene	8.000	ug/kg D U
Toluene	8.000	ug/kg D U
Trichloroethene	8.000	ug/kg D U
Trichlorofluoromethane	17.000	ug/kg D U
Vinyl Acetate	17.000	ug/kg D U
Vinyl chloride	17.000	ug/kg D U
Xylenes, Total	8.000	ug/kg D U
cis-1,3-Dichloropropene	8.000	ug/kg D U

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TABLE D-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1717	SAMPLE NUMBER	067902	SAMPLING DATE	0-2 11/06/91	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics													
trans-1,3-Dichloropropene	8.000	ug/kg	D	U						12.000	ug/kg	D	U
trans-1,4-Dichloro-2-butene	17.000	ug/kg	D	UJ						23.000	ug/kg	D	UJ
Semivolatile Organics													
1,2,4,5-Tetrachlorobenzene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
1,2,4-Trichlorobenzene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
1,2-Dichlorobenzene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
1,3,5-Trinitrobenzene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
1,3-Dichlorobenzene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
1,3-Dinitrobenzene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
1,4-Dichlorobenzene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
1,4-Naphthoquinone	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
1-Naphthylamine	14000.000	ug/kg	D	U						19000.000	ug/kg	D	U
2,3,4,6-Tetrachlorophenol	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2,4,5-Trichlorophenol	5400.000	ug/kg	D	U						7700.000	ug/kg	D	U
2,4,6-Trichlorophenol	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2,4-Dichlorophenol	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2,4-Dimethylphenol	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2,4-Dinitrophenol	5400.000	ug/kg	D	UJ						7700.000	ug/kg	D	U
2,4-Dinitrotoluene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2,6-Dichlorophenol	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2,6-Dinitrotoluene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2-Acetylaminofluorene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2-Chloronaphthalene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2-Chlorophenol	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2-Methylnaphthalene	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2-Methylphenol	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2-Naphthylamine	19000.000	ug/kg	D	U						28000.000	ug/kg	D	U
2-Nitroaniline	5400.000	ug/kg	D	U						7700.000	ug/kg	D	U
2-Nitrophenol	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
2-Picoline	7800.000	ug/kg	D	U						11000.000	ug/kg	D	U
3,3'-Dichlorobenzidine	2200.000	ug/kg	D	UJ						3200.000	ug/kg	D	U
3,3'-Dimethylbenzidine	9200.000	ug/kg	D	U						13000.000	ug/kg	D	U
3-Methylcholanthrene	3400.000	ug/kg	D	U						4800.000	ug/kg	D	U
3-Methylphenol	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
3-Nitroaniline	5400.000	ug/kg	D	UJ						7700.000	ug/kg	D	U
4,6-Dinitro-2-methylphenol	5400.000	ug/kg	D	U						7700.000	ug/kg	D	U
4-Aminobiphenyl	5700.000	ug/kg	D	U						8100.000	ug/kg	D	U
4-Bromophenyl phenyl ether	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
4-Chloro-3-methylphenol	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U
4-Chlorophenylphenyl ether	1100.000	ug/kg	D	U						1600.000	ug/kg	D	U

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TABLE D-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1717	SAMPLE NUMBER	067902	RESULTS UNITS L VQ			BORING NUMBER	1716	SAMPLE NUMBER	067904	RESULTS UNITS L VQ		
SAMPLING DATE	0-2							0-2					
CHEMICAL PARAMETERS	11/06/91							11/06/91					
<u>Semivolatile Organics</u>													
4-Methylphenol	1100.000	ug/kg	D	U				1600.000	ug/kg	D	U		
4-Nitroaniline	5400.000	ug/kg	D	UJ				7700.000	ug/kg	D	UJ		
4-Nitrophenol	5400.000	ug/kg	D	UJ				7700.000	ug/kg	D	UJ		
4-Nitroquinoline-1-oxide	1100.000	ug/kg	D	R				1600.000	ug/kg	D			
5-Nitro-o-toluidine	2300.000	ug/kg	D	U				3200.000	ug/kg	D			
7,12-Dimethylbenz(a)anthracene	2300.000	ug/kg	D	U				3200.000	ug/kg	D			
Acenaphthene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Acenaphthylene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Acetophenone	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Aniline	5800.000	ug/kg	D	U				8200.000	ug/kg	D			
Anthracene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Aramite	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Benz(a)anthracene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Benz(a)pyrene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Benz(b)fluoranthene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Benz(g,h,i)perylene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Benz(k)fluoranthene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Benzoic acid	5400.000	ug/kg	D	U				1600.000	ug/kg	D			
Benzyl alcohol	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Butyl benzyl phthalate	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Chrysene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Di-n-butyl phthalate	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Di-n-octyl phthalate	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Diallate	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Dibenzo(a,h)anthracene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Dibenzofuran	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Diethyl phthalate	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Dimethyl phthalate	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Diphenylamine	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Ethyl methanesulfonate	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Fluoranthene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Fluorene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Hexachlorobenzene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Hexachlorobutadiene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Hexachlorocyclopentadiene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Hexachloroethane	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Hexachlorophene	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Hexachloropropene	5800.000	ug/kg	D	R				8200.000	ug/kg	D			
Indeno(1,2,3-cd)pyrene	2300.000	ug/kg	D	R				3200.000	ug/kg	D			
Isophorone	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Isosafrole	1100.000	ug/kg	D	U				1600.000	ug/kg	D			
Methapyrilene	4500.000	ug/kg	D	UJ				6400.000	ug/kg	D			

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TABLE D-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1717	1716						
SAMPLE NUMBER	067902	067904						
SAMPLING DATE	0-2 11/06/91	0-2 11/06/91						
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>								
Methyl methanesulfonate	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
Methyl parathion	100.000	ug/kg	C	U	100.000	ug/kg	D	U
N-Nitroso-di-n-propylamine	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
N-Nitrosodi-n-butylamine	2300.000	ug/kg	D	U	3200.000	ug/kg	D	U
N-Nitrosodiethylamine	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
N-Nitrosodimethylamine	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
N-Nitrosodiphenylamine	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
N-Nitrosomethylethylenimine	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
N-Nitrosomorpholine	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
N-Nitrosopiperidine	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
N-Nitrosopyrrolidine	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
Naphthalene	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
Nitrobenzene	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
O,O,O-Triethylphosphorothioate	100.000	ug/kg	D	U	100.000	ug/kg	D	U
Parathion	100.000	ug/kg	C	U	100.000	ug/kg	D	U
Pentachlorobenzene	2300.000	ug/kg	D	U	3200.000	ug/kg	D	U
Pentachloroethane	2300.000	ug/kg	D	U	3200.000	ug/kg	D	U
Pentachloronitrobenzene	2300.000	ug/kg	D	U	3200.000	ug/kg	D	U
Pentachlorophenol	5400.000	ug/kg	D	U	7700.000	ug/kg	D	U
Phenacetin	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
Phenanthrone	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
Phenol	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
Pronamide	3400.000	ug/kg	D	U	4800.000	ug/kg	D	U
Pyrene	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
Safrole	1100.000	ug/kg	C	U	1600.000	ug/kg	D	U
Sulfotep	100.000	ug/kg	C	U	100.000	ug/kg	D	U
Tributyl phosphate	1100.000	ug/kg	C	U	1600.000	ug/kg	D	U
a,a-Dimethylphenethylamine	1100.000	ug/kg	D	R	1600.000	ug/kg	D	R
bis(2-Chloroethoxy)methane	1100.000	ug/kg	D	U	1600.000	ug/kg	D	R
bis(2-Chloroethyl)ether	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
bis(2-Chloroisopropyl) ether	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
bis(2-Ethylhexyl) phthalate	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
o-Toluidine	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
p-Chloroaniline	1100.000	ug/kg	D	U	1600.000	ug/kg	D	U
p-Dimethylaminoazobenzene	3400.000	ug/kg	D	U	4800.000	ug/kg	D	U
p-Phenylenediamine	5700.000	ug/kg	D	R	8100.000	ug/kg	D	R
<u>Herbicide Organics</u>								
2,4,5-T	66.000	ug/kg	D	U	92.000	ug/kg	D	U
2,4,5-TP (Silvex)	61.000	ug/kg	D	U	85.000	ug/kg	D	U
2,4-D	340.000	ug/kg	D	U	470.000	ug/kg	D	U

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TABLE D-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1717	SAMPLE NUMBER	067902	0-2	11/06/91	1716	067904	0-2	11/06/91
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ		RESULTS	UNITS	L	VQ
<u>Herbicide Organics</u>									
Dinoseb	24.000	ug/kg	D	U		33.000	ug/kg	D	U
<u>Pesticide Organics/PCBs</u>									
4,4'-DDD	28.000	ug/kg	D	U		38.000	ug/kg	D	U
4,4'-DDE	28.000	ug/kg	D	U		38.000	ug/kg	D	U
4,4'-DDT	28.000	ug/kg	D	U		38.000	ug/kg	D	U
Aldrin	14.000	ug/kg	D	U		19.000	ug/kg	D	U
Aroclor-1016	140.000	ug/kg	D	U		190.000	ug/kg	D	U
Aroclor-1221	140.000	ug/kg	D	U		190.000	ug/kg	D	U
Aroclor-1232	140.000	ug/kg	D	U		190.000	ug/kg	D	U
Aroclor-1242	140.000	ug/kg	D	U		190.000	ug/kg	D	U
Aroclor-1248	140.000	ug/kg	D	U		190.000	ug/kg	D	U
Aroclor-1254	280.000	ug/kg	D	U		380.000	ug/kg	D	U
Aroclor-1260	280.000	ug/kg	D	U		380.000	ug/kg	D	U
Chlorobenzilate	28.000	ug/kg	D	U		38.000	ug/kg	D	U
Dieldrin	28.000	ug/kg	D	U		38.000	ug/kg	D	U
Dimethoate	100.000	ug/kg	C	U		100.000	ug/kg	D	U
Disulfoton	100.000	ug/kg	C	U		100.000	ug/kg	D	U
Endosulfan II	28.000	ug/kg	C	U		38.000	ug/kg	D	U
Endosulfan sulfate	28.000	ug/kg	D	U		38.000	ug/kg	D	U
Endosulfan-I	14.000	ug/kg	D	U		19.000	ug/kg	D	U
Endrin	28.000	ug/kg	D	U		38.000	ug/kg	D	U
Endrin ketone	28.000	ug/kg	D	U		38.000	ug/kg	D	U
Famphur	100.000	ug/kg	C	U		100.000	ug/kg	D	U
Heptachlor	14.000	ug/kg	D	U		19.000	ug/kg	D	U
Heptachlor epoxide	14.000	ug/kg	D	U		19.000	ug/kg	D	U
Isodrin	14.000	ug/kg	D	U		19.000	ug/kg	D	U
Kepone	28.000	ug/kg	D	U		38.000	ug/kg	D	U
Methoxychlor	140.000	ug/kg	D	U		190.000	ug/kg	D	U
Phorate	100.000	ug/kg	C	U		100.000	ug/kg	D	U
Tetraethylpyrophosphate	100.000	ug/kg	D	UJ		100.000	ug/kg	D	UJ
Thionazin	100.000	ug/kg	C	U		100.000	ug/kg	D	U
Toxaphene	280.000	ug/kg	D	U		380.000	ug/kg	D	U
alpha-BHC	14.000	ug/kg	D	U		19.000	ug/kg	D	U
alpha-Chlordane	140.000	ug/kg	D	U		190.000	ug/kg	D	U
beta-BHC	14.000	ug/kg	D	U		19.000	ug/kg	D	U
delta-BHC	14.000	ug/kg	D	U		19.000	ug/kg	D	U
gamma-BHC (Lindane)	14.000	ug/kg	D	U		19.000	ug/kg	D	U
gamma-Chlordane	140.000	ug/kg	D	U		190.000	ug/kg	D	U
<u>Dioxin Furan</u>									
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.072	ug/kg	E	U		0.320	ug/kg	E	U

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TABLE D-6A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1717	1716						
SAMPLE NUMBER	067902	067904						
SAMPLING DATE	0-2 11/06/91	0-2 11/06/91						
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Dioxin Furan</u>								
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.240	ug/kg	E	U	0.260	ug/kg	E	U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.340	ug/kg	E	U	0.370	ug/kg	E	U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.050	ug/kg	E	U	0.097	ug/kg	E	U
1,2,3,4,7,8-Hexachlorodibenzofuran	0.048	ug/kg	E	U	0.100	ug/kg	E	U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.039	ug/kg	E	U	0.077	ug/kg	E	U
1,2,3,6,7,8-Hexachlorodibenzofuran	0.043	ug/kg	E	U	0.089	ug/kg	E	U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.041	ug/kg	E	U	0.081	ug/kg	E	U
1,2,3,7,8,9-Hexachlorodibenzofuran	0.056	ug/kg	E	U	0.120	ug/kg	E	U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.100	ug/kg	E	U	0.240	ug/kg	E	U
1,2,3,7,8-Pentachlorodibenzofuran	0.085	ug/kg	E	U	0.300	ug/kg	E	U
2,3,4,5,7,8-Hexachlorodibenzofuran	0.050	ug/kg	E	U	0.110	ug/kg	E	U
2,3,4,7,8-Pentachlorodibenzofuran	0.092	ug/kg	E	U	0.330	ug/kg	E	U
2,3,7,8-TCDD	0.100	ug/kg	E	U	0.120	ug/kg	E	U
2,3,7,8-TCDF	0.110	ug/kg	E	U	0.056	ug/kg	E	U
Heptachlorodibenzo-p-dioxin	0.072	ug/kg	E	U	0.320	ug/kg	E	U
Heptachlorodibenzofuran	0.290	ug/kg	E	U	0.310	ug/kg	E	U
Hexachlorodibenzo-p-dioxin	0.043	ug/kg	E	U	0.084	ug/kg	E	U
Hexachlorodibenzofuran	0.049	ug/kg	E	U	0.100	ug/kg	E	U
Octachlorodibenzo-p-dioxin	0.051	ug/kg	E	U	0.310	ug/kg	E	U
Octachlorodibenzofuran	0.037	ug/kg	E	U	0.420	ug/kg	E	U
Pentachlorodibenzo-p-dioxin	0.100	ug/kg	E	U	0.240	ug/kg	E	U
Pentachlorodibenzofuran	0.088	ug/kg	E	U	0.310	ug/kg	E	U
Tetrachlorodibenzo-p-dioxin	0.041	ug/kg	E	U	0.055	ug/kg	E	U
Tetrachlorodibenzofuran	0.048	ug/kg	E	U	0.042	ug/kg	E	U
<u>General Chemistry</u>								
Sulfide	14.470	mg/kg	C	U	15.140	mg/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1956	1956	1957
SAMPLE NUMBER	114857	114859	114835
SAMPLING DATE	0 - 4	6 - 7	0.5 - 2
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.088	pCi/g	J
GROSS ALPHA	10.690	pCi/g	J
GROSS BETA	16.690	pCi/g	-
NP-237	0.086	pCi/g	N
PU-238	0.536	pCi/g	J
PU-239/240	0.046	pCi/g	J
RA-226	0.670	pCi/g	-
RA-228	0.780	pCi/g	-
RU-106	0.720	pCi/g	UJ
SR-90	0.130	pCi/g	UJ
TC-99	0.890	pCi/g	J
TH-228	0.310	pCi/g	U
TH-230	1.090	pCi/g	J
TH-232	0.250	pCi/g	U
TH-TOTAL	2.270	ug/g	U
U-234	3.370	pCi/g	J
U-235/236	0.140	pCi/g	J
U-238	3.170	pCi/g	J
U-TOTAL	16.800	mg/kg	J
	0.110	pCi/g	UJ
	9.920	pCi/g	UJ
	20.500	pCi/g	-
	0.034	pCi/g	C
	0.107	pCi/g	C
	0.040	pCi/g	C
	1.250	pCi/g	-
	0.900	pCi/g	-
	0.720	pCi/g	UJ
	0.210	pCi/g	UJ
	0.420	pCi/g	UJ
	0.710	pCi/g	C
	1.240	pCi/g	C
	1.000	pCi/g	C
	9.080	ug/g	C
	0.890	pCi/g	C
	0.060	pCi/g	C
	0.970	pCi/g	C
	13.700	mg/kg	C
	0.060	pCi/g	J
	11.900	pCi/g	J
	18.700	pCi/g	-
	0.130	pCi/g	N
	0.060	pCi/g	J
	0.035	pCi/g	J
	0.880	pCi/g	-
	0.590	pCi/g	-
	0.530	pCi/g	UJ
	0.150	pCi/g	UJ
	0.390	pCi/g	UJ
	0.599	pCi/g	C
	1.370	pCi/g	C
	0.530	pCi/g	C
	4.840	ug/g	C
	2.440	pCi/g	-
	0.130	pCi/g	J
	2.840	pCi/g	-
	9.730	mg/kg	-

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1957			1958			1958		
SAMPLE NUMBER	114838			114821			114823		
SAMPLING DATE	06/07/93			06/06/93			06/06/93		
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	0.071	pCi/g	UJ	0.091	pCi/g	UJ	0.092	pCi/g	UJ
GROSS ALPHA	12.150	pCi/g	J	9.120	pCi/g	UJ	9.600	pCi/g	UJ
GROSS BETA	27.700	pCi/g	-	5.780	pCi/g	UJ	27.400	pCi/g	R
NP-237	0.077	pCi/g	N	0.130	pCi/g	R	0.044	pCi/g	UJ
PU-238	0.065	pCi/g	C	0.130	pCi/g	C	0.064	pCi/g	UJ
PU-239/240	0.035	pCi/g	C	0.120	pCi/g	C	0.060	pCi/g	C
RA-226	1.370	pCi/g	C	0.408	pCi/g	C	1.260	pCi/g	-
RA-228	1.440	pCi/g	-	0.458	pCi/g	C	1.180	pCi/g	-
RU-106	0.620	pCi/g	33	0.707	pCi/g	C	0.774	pCi/g	UJ
SR-90	0.160	pCi/g	33	0.182	pCi/g	C	0.364	pCi/g	C
TC-99	0.400	pCi/g	C	0.647	pCi/g	C	0.571	pCi/g	C
TH-228	1.270	pCi/g	C	0.130	pCi/g	C	1.070	pCi/g	C
TH-230	1.510	pCi/g	C	0.294	pCi/g	C	1.350	pCi/g	C
TH-232	1.120	pCi/g	C	0.060	pCi/g	C	1.210	pCi/g	C
TH-TOTAL	12.300	ug/g	C	0.551	ug/g	C	11.000	ug/g	C
U-234	1.150	pCi/g	C	1.910	pCi/g	C	1.290	pCi/g	C
U-235/236	0.057	pCi/g	C	0.144	pCi/g	C	0.079	pCi/g	C
U-238	1.140	pCi/g	C	1.840	pCi/g	C	1.370	pCi/g	C
U-TOTAL	11.100	mg/kg	C	14.000	mg/kg	-	13.100	mg/kg	-

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1959	1959	1959
SAMPLE NUMBER	114812	114814	114815
SAMPLING DATE	3 - 5	8 - 8.5	11 - 13.5
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.068	pCi/g	UJ
GROSS ALPHA	8.300	pCi/g	UJ
GROSS BETA	5.770	pCi/g	UJ
NP-237	0.183	pCi/g	R
PU-238	0.133	pCi/g	J
PU-239/240	0.133	pCi/g	J
RA-226	0.536	pCi/g	-
RA-228	0.460	pCi/g	UJ
RU-106	0.760	pCi/g	UJ
SR-90	0.167	pCi/g	UJ
TC-99	0.597	pCi/g	UJ
TH-228	0.228	pCi/g	J
TH-230	0.405	pCi/g	J
TH-232	0.112	pCi/g	J
TH-TOTAL	1.020	ug/g	J
U-234	2.550	pCi/g	-
U-235/236	0.199	pCi/g	J
U-238	2.470	pCi/g	-
U-TOTAL	15.000	mg/kg	-
	0.106	pCi/g	UJ
	12.900	pCi/g	-
	23.700	pCi/g	N
	0.071	pCi/g	N
	0.039	pCi/g	N
	0.016	pCi/g	J
	1.170	pCi/g	-
	1.060	pCi/g	-
	0.901	pCi/g	UJ
	0.538	pCi/g	J
	0.575	pCi/g	UJ
	1.020	pCi/g	J
	1.280	pCi/g	J
	1.260	pCi/g	J
	11.500	ug/g	J
	1.080	pCi/g	-
	0.117	pCi/g	-
	1.150	pCi/g	-
	12.300	mg/kg	-
	0.074	pCi/g	UJ
	8.660	pCi/g	UJ
	25.300	pCi/g	-
	0.054	pCi/g	N
	0.016	pCi/g	J
	0.020	pCi/g	J
	1.220	pCi/g	-
	1.050	pCi/g	-
	0.672	pCi/g	UJ
	0.237	pCi/g	J
	0.640	pCi/g	UJ
	0.811	pCi/g	J
	0.857	pCi/g	J
	0.629	pCi/g	J
	5.740	ug/g	J
	1.140	pCi/g	-
	0.068	pCi/g	J
	1.150	pCi/g	-
	11.300	mg/kg	-

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	1960 114734 5 - 6 05/27/93	RESULTS	UNITS	VQ	1960 114737 13 - 13.5 05/28/93	RESULTS	UNITS	VQ	1961 114743 12 - 13 06/01/93	RESULTS	UNITS	VQ
CS-137	0.006	pCi/g	UJ		0.090	pCi/g	UJ		0.090	pCi/g	UJ	
GROSS ALPHA	8.570	pCi/g	UJ		11.900	pCi/g	-		9.090	pCi/g	UJ	
GROSS BETA	7.200	pCi/g	UJ		16.200	pCi/g	-		14.600	pCi/g	UJ	
NP-237	0.038	pCi/g	CJ		0.050	pCi/g	N		0.040	pCi/g	CJ	
PU-238	0.104	pCi/g	CJ		0.020	pCi/g	CJ		0.090	pCi/g	CJ	
PU-239/240	0.044	pCi/g	CJ		0.030	pCi/g	CJ		0.040	pCi/g	CJ	
RA-226	0.395	pCi/g	CJ		0.880	pCi/g	-		1.030	pCi/g	CJ	
RA-228	0.362	pCi/g	CJ		0.670	pCi/g	-		0.960	pCi/g	CJ	
RU-106	0.509	pCi/g	CC		0.930	pCi/g	UJ		0.990	pCi/g	CC	
SR-90	0.176	pCi/g	CC		0.190	pCi/g	UJ		0.190	pCi/g	CC	
TC-99	0.352	pCi/g	CC		0.570	pCi/g	UJ		0.570	pCi/g	CC	
TH-228	0.111	pCi/g	CJ		0.540	pCi/g	-		0.780	pCi/g	-	
TH-230	1.880	pCi/g	CJ		4.510	pCi/g	-		1.120	pCi/g	-	
TH-232	0.082	pCi/g	CJ		0.360	pCi/g	-		0.860	pCi/g	-	
TH-TOTAL	0.750	ug/g	CJ		3.310	ug/g	-		7.840	ug/g	-	
U-234	1.470	pCi/g	CJ		0.780	pCi/g	-		1.050	pCi/g	-	
U-235/236	0.039	pCi/g	CJ		0.040	pCi/g	UJ		0.080	pCi/g	-	
U-238	1.590	pCi/g	-		0.660	pCi/g	-		1.170	pCi/g	-	
U-TOTAL	3.720	mg/kg	-		12.300	mg/kg	-		14.300	mg/kg	-	

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1961	1962	1963
SAMPLE NUMBER	114745	114605	114762
SAMPLING DATE	2 - 4 06/01/93	4.5 - 7 05/20/93	2 - 4 06/03/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.100	pCi/g	UJ
GROSS ALPHA	9.640	pCi/g	UJ
GROSS BETA	7.800	pCi/g	-
NP-237	0.150	pCi/g	R
PU-238	0.190	pCi/g	UJ
PU-239/240	0.040	pCi/g	UJ
RA-226	0.570	pCi/g	-
RA-228	0.490	pCi/g	UJ
RU-106	0.610	pCi/g	UJ
SR-90	0.160	pCi/g	UJ
TC-99	0.590	pCi/g	UJ
TH-228	0.260	pCi/g	J
TH-230	2.700	pCi/g	J
TH-232	0.230	pCi/g	J
TH-TOTAL	2.090	ug/g	J
U-234	1.850	pCi/g	-
U-235/236	0.960	pCi/g	-
U-238	1.860	pCi/g	-
U-TOTAL	13.500	mg/kg	-

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	1963	1963	LSP-SB-01
SAMPLE NUMBER	114766	114874	114564
SAMPLING DATE	13.5 - 15.5 06/03/93	17 - 18 06/11/93	0.5 - 1 05/05/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.050	pCi/g	UJ
GROSS ALPHA	9.730	pCi/g	UJ
GROSS BETA	13.400	pCi/g	-
NP-237	0.050	pCi/g	N
PU-238	0.030	pCi/g	UJ
PU-239/240	0.020	pCi/g	UJ
RA-226	0.830	pCi/g	-
RA-228	0.730	pCi/g	-
RU-106	0.570	pCi/g	UJ
SR-90	0.170	pCi/g	UJ
TC-99	0.540	pCi/g	UJ
TH-228	0.480	pCi/g	UJ
TH-230	0.480	pCi/g	UJ
TH-232	0.430	pCi/g	UJ
TH-TOTAL	3.950	ug/g	-
U-234	0.620	pCi/g	-
U-235/236	0.030	pCi/g	-
U-238	0.590	pCi/g	-
U-TOTAL	8.610	mg/kg	-
	0.079	pCi/g	UJ
	9.080	pCi/g	UJ
	5.890	pCi/g	UJ
	0.129	pCi/g	N
	0.040	pCi/g	UJ
	0.019	pCi/g	UJ
	1.040	pCi/g	-
	0.890	pCi/g	-
	0.604	pCi/g	UJ
	0.215	pCi/g	UJ
	0.438	pCi/g	UJ
	0.919	pCi/g	UJ
	1.340	pCi/g	UJ
	0.939	pCi/g	UJ
	8.560	ug/g	-
	1.010	pCi/g	-
	0.036	pCi/g	-
	1.020	pCi/g	-
	4.010	mg/kg	-
	0.100	pCi/g	UJ
	14.900	pCi/g	J
	25.800	pCi/g	J
	0.110	pCi/g	N
	0.030	pCi/g	J
	0.030	pCi/g	J
	1.050	pCi/g	-
	0.660	pCi/g	J
	0.840	pCi/g	UJ
	0.400	pCi/g	UJ
	0.350	pCi/g	UJ
	1.070	pCi/g	NV
	1.830	pCi/g	NV
	0.880	pCi/g	NV
	7.980	ug/g	NV
	1.600	pCi/g	-
	0.080	pCi/g	J
	1.990	pCi/g	-
	6.910	mg/kg	-

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	LSP-SB-02	LSP-SB-03	LSP-SB-04
SAMPLE NUMBER	114508	114510	114570
SAMPLING DATE	0.5 - 1 05/05/93	0.5 - 1 05/05/93	0.5 - 1 05/06/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.110	pCi/g	UJ
GROSS ALPHA	21.900	pCi/g	-
GROSS BETA	32.300	pCi/g	N
NP-237	0.111	pCi/g	N
PU-238	0.042	pCi/g	J
PU-239/240	0.042	pCi/g	J
RA-226	1.330	pCi/g	-
RA-228	1.240	pCi/g	-
RU-106	0.840	pCi/g	UJ
SR-90	0.959	pCi/g	-
TC-99	0.392	pCi/g	UJ
TH-228	0.915	pCi/g	R
TH-230	1.550	pCi/g	R
TH-232	0.966	pCi/g	R
TH-TOTAL	8.800	ug/g	R
U-234	3.710	pCi/g	J
U-235/236	0.203	pCi/g	J
U-238	3.930	pCi/g	J
U-TOTAL	15.100	mg/kg	-
	0.094	pCi/g	J
	22.700	pCi/g	-
	29.800	pCi/g	-
	0.044	pCi/g	N
	0.018	pCi/g	N
	0.013	pCi/g	J
	1.060	pCi/g	-
	1.210	pCi/g	-
	0.760	pCi/g	UJ
	0.841	pCi/g	J
	0.355	pCi/g	UJ
	1.060	pCi/g	N
	1.940	pCi/g	J
	1.050	pCi/g	J
	7.570	ug/g	J
	4.280	pCi/g	J
	0.204	pCi/g	J
	8.750	pCi/g	J
	23.500	mg/kg	-
	0.100	pCi/g	J
	27.100	pCi/g	J
	39.000	pCi/g	J
	0.480	pCi/g	N
	0.110	pCi/g	J
	0.090	pCi/g	J
	1.140	pCi/g	-
	1.430	pCi/g	-
	0.790	pCi/g	J
	0.430	pCi/g	J
	0.340	pCi/g	J
	1.150	pCi/g	-
	4.740	pCi/g	-
	0.880	pCi/g	-
	8.100	ug/g	-
	5.450	pCi/g	-
	0.260	pCi/g	-
	6.470	pCi/g	J
	25.200	mg/kg	J

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	LSP-SB-05 114600 0.5 - 1 05/10/93	RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ	LSP-SB-06 114602 0.5 - 1 05/10/93	RESULTS	UNITS	VQ	LSP-SB-07 114576 0.5 - 1 05/06/93	RESULTS	UNITS	VQ
CS-137	0.107	pCi/g	C			0.085	pCi/g	C		0.116	pCi/g	-	
GROSS ALPHA	16.600	pCi/g	C			16.400	pCi/g	C		32.500	pCi/g	-	
GROSS BETA	25.500	pCi/g	C			20.100	pCi/g	C		27.200	pCi/g	-	
NP-237	0.289	pCi/g	C			0.354	pCi/g	C		0.541	pCi/g	-	
PU-238	0.087	pCi/g	C			0.087	pCi/g	C		0.098	pCi/g	-	
PU-239/240	0.108	pCi/g	C			0.065	pCi/g	C		0.089	pCi/g	-	
RA-226	0.953	pCi/g	C			0.970	pCi/g	C		1.260	pCi/g	-	
RA-228	1.080	pCi/g	C			1.160	pCi/g	C		1.320	pCi/g	-	
RU-106	0.767	pCi/g	C			0.861	pCi/g	C		0.819	pCi/g	-	
SR-90	0.376	pCi/g	C			0.354	pCi/g	C		0.381	pCi/g	-	
TC-99	0.344	pCi/g	C			0.331	pCi/g	C		0.374	pCi/g	-	
TH-228	0.911	pCi/g	C			0.956	pCi/g	C		1.270	pCi/g	-	
TH-230	5.020	pCi/g	C			1.530	pCi/g	C		5.190	pCi/g	-	
TH-232	0.947	pCi/g	C			0.876	pCi/g	C		1.070	pCi/g	-	
TH-TOTAL	8.710	ug/g	C			8.060	ug/g	C		9.840	ug/g	-	
U-234	3.460	pCi/g	C			2.670	pCi/g	C		4.490	pCi/g	-	
U-235/236	0.181	pCi/g	C			0.143	pCi/g	C		0.220	pCi/g	-	
U-238	3.780	pCi/g	C			2.750	pCi/g	C		5.090	pCi/g	-	
U-TOTAL	19.100	mg/kg	C			18.500	mg/kg	C		26.400	mg/kg	-	

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	LSP-SB-196			LSP-SS-03			LSP-SS-04				
SAMPLE NUMBER	114607	RESULTS	UNITS	VQ	114469	RESULTS	UNITS	VQ	114476		
SAMPLING DATE	12.5 - 14 05/25/93				05/01/93				0.5 - 1 05/02/93		
RADIOLOGICAL PARAMETERS											
CS-137	0.100	pc ⁱ /g	UJ		0.170	pc ⁱ /g	C		0.086	pc ⁱ /g	UJ
GROSS ALPHA	9.740	pc ⁱ /g	C		23.440	pc ⁱ /g			24.200	pc ⁱ /g	J
GROSS BETA	15.970	pc ⁱ /g	C		29.280	pc ⁱ /g	C		27.100	pc ⁱ /g	J
NP-237	0.031	pc ⁱ /g	R		0.080	pc ⁱ /g			0.030	pc ⁱ /g	N
PU-238	0.043	pc ⁱ /g	J		0.060	pc ⁱ /g			0.082	pc ⁱ /g	C
PU-239/240	0.022	pc ⁱ /g	UJ		0.039	pc ⁱ /g			0.051	pc ⁱ /g	C
RA-226	0.842	pc ⁱ /g	-		1.080	pc ⁱ /g			1.060	pc ⁱ /g	C
RA-228	0.775	pc ⁱ /g	-		1.330	pc ⁱ /g			1.120	pc ⁱ /g	C
RU-106	0.786	pc ⁱ /g	C		0.780	pc ⁱ /g	C		0.620	pc ⁱ /g	C
SR-90	0.199	pc ⁱ /g	C		0.397	pc ⁱ /g	C		0.417	pc ⁱ /g	C
TC-99	0.367	pc ⁱ /g	C		0.339	pc ⁱ /g	C		0.352	pc ⁱ /g	C
TH-228	0.536	pc ⁱ /g	C		1.070	pc ⁱ /g			0.960	pc ⁱ /g	-
TH-230	2.470	pc ⁱ /g	C		2.000	pc ⁱ /g	-		1.800	pc ⁱ /g	-
TH-232	0.335	pc ⁱ /g	C		1.030	pc ⁱ /g	-		0.940	pc ⁱ /g	-
TH-TOTAL	3.050	ug/g	C		9.400	ug/g	C		8.540	ug/g	-
U-234	0.710	pc ⁱ /g	C		4.400	pc ⁱ /g	C		3.830	pc ⁱ /g	C
U-235/236	0.066	pc ⁱ /g	C		0.200	pc ⁱ /g	C		0.220	pc ⁱ /g	C
U-238	0.732	pc ⁱ /g	C		4.690	pc ⁱ /g	C		4.520	pc ⁱ /g	C
U-TOTAL	2.170	mg/kg	-		24.000	mg/kg	-		20.700	mg/kg	-

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	LSP-SS-07	LSP-SS-08	LSP-SS-11
SAMPLE NUMBER	114479	114490	114500
SAMPLING DATE	0.5 - 1 05/02/93	0.5 - 1 05/03/93	0.5 - 1 05/04/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	0.130	pCi/g	J
GROSS ALPHA	61.400	pCi/g	-
GROSS BETA	43.360	pCi/g	N
NP-237	0.190	pCi/g	C
PU-238	0.067	pCi/g	C
PU-239/240	0.043	pCi/g	C
RA-226	2.360	pCi/g	C
RA-228	1.370	pCi/g	C
RU-106	0.740	pCi/g	C
SR-90	0.860	pCi/g	C
TC-99	0.400	pCi/g	C
TH-228	1.090	pCi/g	C
TH-230	32.200	pCi/g	C
TH-232	1.340	pCi/g	C
TH-TOTAL	12.200	ug/g	C
U-234	4.500	pCi/g	C
U-235/236	0.209	pCi/g	C
U-238	5.610	pCi/g	C
U-TOTAL	17.600	mg/kg	-
	0.087	pCi/g	C
	23.700	pCi/g	C
	27.300	pCi/g	C
	0.040	pCi/g	C
	0.040	pCi/g	C
	0.011	pCi/g	C
	1.120	pCi/g	C
	1.330	pCi/g	C
	0.660	pCi/g	C
	0.410	pCi/g	C
	0.358	pCi/g	C
	0.960	pCi/g	C
	2.900	pCi/g	C
	0.940	pCi/g	C
	8.550	ug/g	C
	3.750	pCi/g	C
	0.290	pCi/g	C
	4.680	pCi/g	C
	22.700	mg/kg	C
	0.093	pCi/g	C
	24.000	pCi/g	C
	35.000	pCi/g	C
	0.128	pCi/g	C
	0.079	pCi/g	C
	0.020	pCi/g	C
	1.140	pCi/g	C
	1.080	pCi/g	C
	0.800	pCi/g	C
	0.725	pCi/g	C
	0.399	pCi/g	C
	0.898	pCi/g	C
	1.150	pCi/g	C
	0.851	pCi/g	C
	7.750	ug/g	C
	3.660	pCi/g	C
	0.204	pCi/g	C
	4.050	pCi/g	C
	11.200	mg/kg	C

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TABLE D-6A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER	LSP-SS-12			K-65 TRENCH			K-65 TRENCH		
SAMPLE NUMBER	114503	RESULTS	UNITS	VQ	114776	RESULTS	UNITS	VQ	114767
SAMPLING DATE	0.5 - 1			-	0 - 6			-	0 - 6
RADIOLOGICAL PARAMETERS									
CS-137		0.130	pc ⁱ /g	J		0.092	pc ⁱ /g	J	
GROSS ALPHA		25.900	pc ⁱ /g	-		36.740	pc ⁱ /g	-	
GROSS BETA		33.200	pc ⁱ /g	-		29.800	pc ⁱ /g	-	
NP-237		0.045	pc ⁱ /g	CEN		0.305	pc ⁱ /g	CEN	
PU-238		0.016	pc ⁱ /g	CEN		0.036	pc ⁱ /g	CEN	
PU-239/240		0.028	pc ⁱ /g	CEN		0.046	pc ⁱ /g	CEN	
RA-226		1.150	pc ⁱ /g	-		2.320	pc ⁱ /g	-	
RA-228		0.983	pc ⁱ /g	CEN		1.720	pc ⁱ /g	CEN	
RU-106		0.590	pc ⁱ /g	CEN		0.650	pc ⁱ /g	CEN	
SR-90		0.565	pc ⁱ /g	CEN		0.160	pc ⁱ /g	CEN	
TC-99		0.398	pc ⁱ /g	CEN		0.450	pc ⁱ /g	CEN	
TH-228		0.859	pc ⁱ /g	CEN		1.750	pc ⁱ /g	CEN	
TH-230		2.020	pc ⁱ /g	CEN		20.300	pc ⁱ /g	CEN	
TH-232		0.819	pc ⁱ /g	CEN		1.430	pc ⁱ /g	CEN	
TH-TOTAL		7.460	ug/g	CEN		13.000	ug/g	CEN	
U-234		3.580	pc ⁱ /g	CEN		5.330	pc ⁱ /g	CEN	
U-235/236		0.197	pc ⁱ /g	CEN		0.260	pc ⁱ /g	CEN	
U-238		4.100	pc ⁱ /g	CEN		5.500	pc ⁱ /g	CEN	
U-TOTAL		13.700	mg/kg	-		24.800	mg/kg	-	

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1956	1956	1957
SAMPLE NUMBER	114857	114859	114835
SAMPLING DATE	0-4 06/08/93	6-7 06/08/93	0.5-2 06/07/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
Inorganics			
Aluminum	7110.000	mg/kg C	J
Antimony	25.700	mg/kg C	UJ
Arsenic	11.200	mg/kg C	J
Barium	85.600	mg/kg C	J
Beryllium	0.720	mg/kg C	J
Cadmium	1.400	mg/kg C	J
Calcium	269000.000	mg/kg C	J
Chromium	2.200	mg/kg C	J
Cobalt	9.800	mg/kg C	J
Copper	29.800	mg/kg C	J
Cyanide	0.300	mg/kg C	J
Iron	10100.000	mg/kg C	J
Lead	104.000	mg/kg C	J
Magnesium	15800.000	mg/kg C	J
Manganese	556.000	mg/kg C	J
Mercury	0.210	mg/kg C	J
Molybdenum	3.200	mg/kg C	J
Nickel	16.800	mg/kg C	J
Potassium	1310.000	mg/kg C	J
Selenium	0.440	mg/kg C	J
Silicon	5680.000	mg/kg C	J
Silver	1.500	mg/kg C	J
Sodium	671.000	mg/kg C	J
Thallium	0.440	mg/kg C	J
Vanadium	8.900	mg/kg C	J
Zinc	72.600	mg/kg C	J
Volatile Organics			
1,1,1-Trichloroethane	23.000	ug/kg C	U
1,1,2,2-Tetrachloroethane	23.000	ug/kg C	U
1,1,2-Trichloroethane	23.000	ug/kg C	U
1,1-Dichloroethane	23.000	ug/kg C	U
1,1-Dichloroethene	23.000	ug/kg C	U
1,2-Dichloroethane	23.000	ug/kg C	U
1,2-Dichloroethene	23.000	ug/kg C	U
1,2-Dichloropropane	23.000	ug/kg C	U
2-Butanone	23.000	ug/kg C	U
2-Hexanone	23.000	ug/kg C	U
4-Methyl-2-pentanone	23.000	ug/kg C	U
Acetone	11.000	ug/kg C	U
Benzene	23.000	ug/kg C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1956	1956	1957		
SAMPLE NUMBER	114857	114859	114835		
SAMPLING DATE	0-4	6-7	0.5-2		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
<u>Volatile Organics</u>					
Bromodichloromethane	23.000	ug/kg C U	14.000	ug/kg C U	NA
Bromoform	23.000	ug/kg C U	14.000	ug/kg C U	NA
Bromomethane	23.000	ug/kg C U	14.000	ug/kg C U	NA
Carbon Tetrachloride	23.000	ug/kg C U	14.000	ug/kg C U	NA
Carbon disulfide	23.000	ug/kg C U	14.000	ug/kg C U	NA
Chlorobenzene	23.000	ug/kg C U	14.000	ug/kg C U	NA
Chloroethane	23.000	ug/kg C U	14.000	ug/kg C U	NA
Chloroform	23.000	ug/kg C U	14.000	ug/kg C U	NA
Chloromethane	23.000	ug/kg C U	14.000	ug/kg C U	NA
Dibromochloromethane	23.000	ug/kg C U	14.000	ug/kg C U	NA
Ethylbenzene	23.000	ug/kg C U	14.000	ug/kg C U	NA
Methylene chloride	18.000	ug/kg C U	16.000	ug/kg C U	NA
Styrene	23.000	ug/kg C U	14.000	ug/kg C U	NA
Tetrachloroethene	23.000	ug/kg C U	14.000	ug/kg C U	NA
Toluene	23.000	ug/kg C U	14.000	ug/kg C U	NA
Trichloroethene	23.000	ug/kg C U	14.000	ug/kg C U	NA
Vinyl Acetate	23.000	ug/kg C U	14.000	ug/kg C U	NA
Vinyl chloride	23.000	ug/kg C U	14.000	ug/kg C U	NA
Xylenes, Total	23.000	ug/kg C U	14.000	ug/kg C U	NA
cis-1,3-Dichloropropene	23.000	ug/kg C U	14.000	ug/kg C U	NA
trans-1,3-Dichloropropene	23.000	ug/kg C U	14.000	ug/kg C U	NA
<u>Semivolatile Organics</u>					
1,2,4-Trichlorobenzene	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
1,2-Dichlorobenzene	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
1,3-Dichlorobenzene	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
1,4-Dichlorobenzene	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2,4,5-Trichlorophenol	1900.000	ug/kg C R	1100.000	ug/kg C R	1300.000 ug/kg C R
2,4,6-Trichlorophenol	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2,4-Dichlorophenol	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2,4-Dimethylphenol	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2,4-Dinitrophenol	1900.000	ug/kg C R	1100.000	ug/kg C R	1300.000 ug/kg C R
2,4-Dinitrotoluene	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2,6-Dinitrotoluene	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2-Benzyl-4-chlorophenol	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2-Chloronaphthalene	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2-Chlorophenol	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2-Methylnaphthalene	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2-Methylphenol	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U
2-Nitroaniline	1900.000	ug/kg C U	1100.000	ug/kg C U	1300.000 ug/kg C U
2-Nitrophenol	780.000	ug/kg C U	460.000	ug/kg C U	550.000 ug/kg C U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1956	1956	1957			
SAMPLE NUMBER	114857	114859	114835			
SAMPLING DATE	0-4	6-7	0.5-2			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
3-Nitroaniline	1900.000	ug/kg C U	1100.000	ug/kg C U	1300.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1900.000	ug/kg C U	1100.000	ug/kg C U	1300.000	ug/kg C U
4-Bromophenyl phenyl ether	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
4-Chloro-3-methylphenol	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
4-Chlorophenylphenyl ether	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
4-Methylphenol	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
4-Nitroaniline	1900.000	ug/kg C U	1100.000	ug/kg C U	1300.000	ug/kg C U
4-Nitrophenol	1900.000	ug/kg C U	1100.000	ug/kg C U	1300.000	ug/kg C U
Acenaphthene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Acenaphthylene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Anthracene	82.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Benzo(a)anthracene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Benzo(a)pyrene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Benzo(b)fluoranthene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Benzo(g,h,i)perylene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Benzo(k)fluoranthene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Benzoic acid	3800.000	ug/kg C U	160.000	ug/kg C U	2600.000	ug/kg C U
Benzyl alcohol	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Butyl benzyl phthalate	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Carbazole	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Chrysene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Di-n-butyl phthalate	780.000	ug/kg C U	75.000	ug/kg C U	550.000	ug/kg C U
Di-n-octyl phthalate	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Dibenzo(a,h)anthracene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Dibenzofuran	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Diethyl phthalate	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Dimethyl phthalate	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Fluoranthene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Fluorene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Hexachlorobenzene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Hexachlorobutadiene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Hexachlorocyclopentadiene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Hexachloroethane	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Isophorone	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
N-Nitroso-di-n-propylamine	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
N-Nitrosodimethylamine	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
N-Nitrosodiphenylamine	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Naphthalene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Nitrobenzene	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
Pentachlorophenol	1900.000	ug/kg C U	1100.000	ug/kg C U	1300.000	ug/kg C U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1956	1956	1957			
SAMPLE NUMBER	114857	114859	114835			
SAMPLING DATE	0-4 06/08/93	6-7 06/08/93	0.5-2 06/07/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	82.000	ug/kg C J	460.000	ug/kg C U	550.000	ug/kg C U
Pheno1	780.000	ug/kg C UJ	460.000	ug/kg C U	550.000	ug/kg C U
Pyrene	780.000	ug/kg C UJ	460.000	ug/kg C U	550.000	ug/kg C U
Tributyl phosphate	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
bis(2-Chloroethoxy)methane	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
bis(2-Chloroethyl)ether	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
bis(2-Chloroisopropyl) ether	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	440.000	ug/kg C J	88.000	ug/kg C J	91.000	ug/kg C J
p-Chloroaniline	780.000	ug/kg C U	460.000	ug/kg C U	550.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	7.800	ug/kg C U	4.600	ug/kg C U	5.400	ug/kg C U
4,4'-DDE	7.800	ug/kg C U	4.600	ug/kg C U	5.400	ug/kg C U
4,4'-DDT	7.800	ug/kg C U	4.600	ug/kg C U	5.400	ug/kg C U
Aldrin	4.000	ug/kg C U	2.400	ug/kg C U	2.800	ug/kg C U
Aroclor-1016	78.000	ug/kg C U	46.000	ug/kg C U	54.000	ug/kg C U
Aroclor-1221	160.000	ug/kg C U	93.000	ug/kg C U	110.000	ug/kg C U
Aroclor-1232	78.000	ug/kg C U	46.000	ug/kg C U	54.000	ug/kg C U
Aroclor-1242	78.000	ug/kg C U	46.000	ug/kg C U	54.000	ug/kg C U
Aroclor-1248	78.000	ug/kg C U	46.000	ug/kg C U	54.000	ug/kg C U
Aroclor-1254	78.000	ug/kg C U	46.000	ug/kg C U	54.000	ug/kg C U
Aroclor-1260	78.000	ug/kg C U	46.000	ug/kg C U	54.000	ug/kg C U
Dieldrin	7.800	ug/kg C U	4.600	ug/kg C U	5.400	ug/kg C U
Endosulfan II	7.800	ug/kg C U	4.600	ug/kg C U	5.400	ug/kg C U
Endosulfan sulfate	7.800	ug/kg C U	4.600	ug/kg C U	5.400	ug/kg C U
Endosulfan-I	4.000	ug/kg C U	2.400	ug/kg C U	2.800	ug/kg C U
Endrin	7.800	ug/kg C U	4.600	ug/kg C U	5.400	ug/kg C U
Endrin aldehyde	7.800	ug/kg C U	4.600	ug/kg C U	5.400	ug/kg C U
Endrin ketone	7.800	ug/kg C U	4.600	ug/kg C U	5.400	ug/kg C U
Heptachlor	4.000	ug/kg C U	2.400	ug/kg C U	2.800	ug/kg C U
Heptachlor epoxide	4.000	ug/kg C U	2.400	ug/kg C U	2.800	ug/kg C U
Methoxychlor	40.000	ug/kg C U	24.000	ug/kg C U	28.000	ug/kg C U
Toxaphene	400.000	ug/kg C U	240.000	ug/kg C U	280.000	ug/kg C U
alpha-BHC	4.000	ug/kg C U	2.400	ug/kg C U	2.800	ug/kg C U
alpha-Chlordane	4.000	ug/kg C U	2.400	ug/kg C U	2.800	ug/kg C U
beta-BHC	4.000	ug/kg C U	2.400	ug/kg C U	2.800	ug/kg C U
delta-BHC	4.000	ug/kg C U	2.400	ug/kg C U	2.800	ug/kg C U
gamma-BHC (Lindane)	4.000	ug/kg C U	2.400	ug/kg C U	2.800	ug/kg C U
gamma-Chlordane	4.000	ug/kg C U	2.400	ug/kg C U	2.800	ug/kg C U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1957	1957	1958
SAMPLE NUMBER	114872	114838	114821
SAMPLING DATE	0.5-2 06/10/93	4-5 06/07/93	0.5-2.5 06/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	NA	mg/kg C UJ	5240.000 mg/kg C C
Antimony	NA	15.800 mg/kg C C	23.200 mg/kg C C
Arsenic	NA	14.600 mg/kg C C	8.400 mg/kg C C
Barium	NA	111.000 mg/kg C C	84.900 mg/kg C C
Beryllium	NA	0.850 mg/kg C C	0.120 mg/kg C C
Cadmium	NA	0.840 mg/kg C C	1.600 mg/kg C C
Calcium	NA	4980.000 mg/kg C C	353000.000 mg/kg C C
Chromium	NA	13.000 mg/kg C C	6.000 mg/kg C C
Cobalt	NA	16.900 mg/kg C C	3.700 mg/kg C C
Copper	NA	25.100 mg/kg C C	18.100 mg/kg C C
Cyanide	NA	0.130 mg/kg C C	0.250 mg/kg C C
Iron	NA	30200.000 mg/kg C C	5810.000 mg/kg C C
Lead	NA	17.300 mg/kg C C	3.600 mg/kg C C
Magnesium	NA	4660.000 mg/kg C C	17200.000 mg/kg C C
Manganese	NA	605.000 mg/kg C C	661.000 mg/kg C C
Mercury	NA	0.070 mg/kg C C	2.300 mg/kg C C
Molybdenum	NA	1.800 mg/kg C C	2.600 mg/kg C C
Nickel	NA	30.000 mg/kg C C	8.300 mg/kg C C
Potassium	NA	1020.000 mg/kg C C	1180.000 mg/kg C C
Selenium	NA	0.270 mg/kg C C	4.000 mg/kg C C
Silicon	NA	1640.000 mg/kg C C	7220.000 mg/kg C C
Silver	NA	0.940 mg/kg C C	1.400 mg/kg C C
Sodium	NA	503.000 mg/kg C C	345.000 mg/kg C C
Thallium	NA	0.270 mg/kg C C	0.400 mg/kg C C
Vanadium	NA	29.600 mg/kg C C	2.500 mg/kg C C
Zinc	NA	73.200 mg/kg C C	NA
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	20.000 ug/kg C U	13.000 ug/kg C C	20.000 ug/kg C UJ
1,1,2,2-Tetrachloroethane	20.000 ug/kg C C	13.000 ug/kg C C	20.000 ug/kg C UJ
1,1,2-Trichloroethane	20.000 ug/kg C C	13.000 ug/kg C C	20.000 ug/kg C UJ
1,1,2Trichlorotrifluoroethane	20.000 ug/kg C NV	NA	NA
1,1-Dichloroethane	20.000 ug/kg C U	13.000 ug/kg C C	20.000 ug/kg C UJ
1,1-Dichloroethene	20.000 ug/kg C U	13.000 ug/kg C C	20.000 ug/kg C UJ
1,2-Dichloroethane	20.000 ug/kg C C	13.000 ug/kg C C	20.000 ug/kg C UJ
1,2-Dichloroethene	20.000 ug/kg C C	13.000 ug/kg C C	20.000 ug/kg C UJ
1,2-Dichloropropane	20.000 ug/kg C C	13.000 ug/kg C C	20.000 ug/kg C UJ
1,2-diethylbenzene	41.000 ug/kg C NV	13.000 ug/kg C C	20.000 ug/kg C UJ
2-Butanone	20.000 ug/kg C C	13.000 ug/kg C C	20.000 ug/kg C UJ
2-Hexanone	20.000 ug/kg C C	13.000 ug/kg C C	20.000 ug/kg C UJ
4-Methyl-2-pentanone	20.000 ug/kg C U	13.000 ug/kg C C	20.000 ug/kg C UJ

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1957	1957	1958			
SAMPLE NUMBER	114872	114838	114821			
SAMPLING DATE	0.5-2 06/10/93	4-5 06/07/93	0.5-2.5 06/06/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Acetone	20.000	ug/kg C U	6.000	ug/kg C J	20.000	ug/kg C UJ
Acetonitrile	200.000	ug/kg C NV	NA		NA	
Acrylonitrile	200.000	ug/kg C NV	NA		NA	
Benzene	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Bromodichloromethane	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Bromoform	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Bromomethane	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Carbon Tetrachloride	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Carbon disulfide	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Chlorobenzene	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Chloroethane	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Chloroform	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Chloromethane	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Dibromochloromethane	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Ethylbenzene	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Hexane	20.000	ug/kg C NV	NA		NA	
Iodomethane	20.000	ug/kg C NV	NA		NA	
Methylene chloride	20.000	ug/kg C C	13.000	ug/kg C C	31.000	ug/kg C J
Styrene	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Tetrachloroethene	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Toluene	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Trichloroethene	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Vinyl Acetate	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Vinyl chloride	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
Xylenes, Total	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
cis-1,3-Dichloropropene	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
trans-1,3-Dichloropropene	20.000	ug/kg C C	13.000	ug/kg C C	20.000	ug/kg C UJ
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	NA		450.000	ug/kg C C	680.000	ug/kg C UJ
1,2-Dichlorobenzene	NA		450.000	ug/kg C C	680.000	ug/kg C UJ
1,3-Dichlorobenzene	NA		450.000	ug/kg C C	680.000	ug/kg C UJ
1,4-Dichlorobenzene	NA		450.000	ug/kg C C	680.000	ug/kg C UJ
2,4,5-Trichlorophenol	NA		1100.000	ug/kg C C	1600.000	ug/kg C UJ
2,4,6-Trichlorophenol	NA		450.000	ug/kg C C	680.000	ug/kg C UJ
2,4-Dichlorophenol	NA		450.000	ug/kg C C	680.000	ug/kg C UJ
2,4-Dimethylphenol	NA		450.000	ug/kg C C	680.000	ug/kg C UJ
2,4-Dinitrophenol	NA		1100.000	ug/kg C C	3300.000	ug/kg C UJ
2,4-Dinitrotoluene	NA		450.000	ug/kg C C	680.000	ug/kg C UJ
2,6-Dinitrotoluene	NA		450.000	ug/kg C C	680.000	ug/kg C UJ
2-Benzyl-4-chlorophenol	NA		450.000	ug/kg C C	680.000	ug/kg C UJ

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1957		1957		1958					
SAMPLE NUMBER	114872		114838		114821					
SAMPLING DATE	0.5-2 06/10/93		4-5 06/07/93		0.5-2.5 06/06/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>										
2-Chloronaphthalene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
2-Chlorophenol	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
2-Methylnaphthalene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
2-Methylphenol	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
2-Nitroaniline	NA				1100.000	ug/kg C	1600.000	ug/kg C	UJ	
2-Nitrophenol	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
3,3'-Dichlorobenzidine	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
3-Nitroaniline	NA				1100.000	ug/kg C	1600.000	ug/kg C	UJ	
4,6-Dinitro-2-methylphenol	NA				1100.000	ug/kg C	1600.000	ug/kg C	UJ	
4-Bromophenyl phenyl ether	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
4-Chloro-3-methylphenol	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
4-Chlorophenylphenyl ether	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
4-Methylphenol	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
4-Nitroaniline	NA				1100.000	ug/kg C	1600.000	ug/kg C	UJ	
4-Nitrophenol	NA				1100.000	ug/kg C	1600.000	ug/kg C	UJ	
Acenaphthene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Acenaphthylene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Anthracene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Benzo(a)anthracene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Benzo(a)pyrene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Benzo(b)fluoranthene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Benzo(g,h,i)perylene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Benzo(k)fluoranthene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Benzoic acid	NA				2200.000	ug/kg C	3300.000	ug/kg C	UJ	
Benzyl alcohol	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Butyl benzyl phthalate	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Carbazole	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Chrysene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Di-n-butyl phthalate	NA				59.000	ug/kg C	680.000	ug/kg C	UJ	
Di-n-octyl phthalate	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Dibenzo(a,h)anthracene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Dibenzofuran	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Diethyl phthalate	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Dimethyl phthalate	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Fluoranthene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Fluorene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Hexachlorobenzene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Hexachlorobutadiene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Hexachlorocyclopentadiene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Hexachloroethane	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Indeno(1,2,3-cd)pyrene	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	
Isophorone	NA				450.000	ug/kg C	680.000	ug/kg C	UJ	

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1957	1957	1958
SAMPLE NUMBER	114872	114838	114821
SAMPLING DATE	0.5-2 06/10/93	4-5 06/07/93	0.5-2.5 06/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
N-Nitroso-di-n-propylamine	NA		450.000 ug/kg C U
N-Nitrosodimethylamine	NA		680.000 ug/kg C UJ
N-Nitrosodiphenylamine	NA		680.000 ug/kg C UJ
Naphthalene	NA		680.000 ug/kg C UJ
Nitrobenzene	NA		680.000 ug/kg C UJ
Pentachlorophenol	NA		1600.000 ug/kg C UJ
Phenanthrene	NA		680.000 ug/kg C UJ
Phenol	NA		680.000 ug/kg C UJ
Pyrene	NA		680.000 ug/kg C UJ
Tributyl phosphate	NA		680.000 ug/kg C UJ
bis(2-Chloroethoxy)methane	NA		680.000 ug/kg C UJ
bis(2-Chloroethyl)ether	NA		680.000 ug/kg C UJ
bis(2-Chloroisopropyl) ether	NA		680.000 ug/kg C UJ
bis(2-Ethylhexyl) phthalate	NA		680.000 ug/kg C UJ
p-Chloroaniline	NA		92.000 ug/kg C UJ
			680.000 ug/kg C UJ
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	NA		4.400 ug/kg C C
4,4'-DDE	NA		4.400 ug/kg C C
4,4'-DDT	NA		4.400 ug/kg C C
Aldrin	NA		2.300 ug/kg C C
Aroclor-1016	NA		44.000 ug/kg C C
Aroclor-1221	NA		90.000 ug/kg C C
Aroclor-1232	NA		44.000 ug/kg C C
Aroclor-1242	NA		44.000 ug/kg C C
Aroclor-1248	NA		44.000 ug/kg C C
Aroclor-1254	NA		44.000 ug/kg C C
Aroclor-1260	NA		44.000 ug/kg C C
Dieldrin	NA		4.400 ug/kg C C
Endosulfan II	NA		4.400 ug/kg C C
Endosulfan sulfate	NA		4.400 ug/kg C C
Endosulfan-I	NA		2.300 ug/kg C C
Endrin	NA		4.400 ug/kg C C
Endrin aldehyde	NA		4.400 ug/kg C C
Endrin ketone	NA		4.400 ug/kg C C
Heptachlor	NA		2.300 ug/kg C C
Heptachlor epoxide	NA		2.300 ug/kg C C
Methoxychlor	NA		23.000 ug/kg C C
Toxaphene	NA		230.000 ug/kg C C
alpha-BHC	NA		2.300 ug/kg C C
alpha-Chlordane	NA		2.300 ug/kg C C

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1957	1957	1958
SAMPLE NUMBER	114872	114838	114821
SAMPLING DATE	0.5-2 06/10/93	4-5 06/07/93	0.5-2.5 06/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Pesticide Organics/PCBs</u>			
beta-BHC	NA	2.300	ug/kg C U
delta-BHC	NA	2.300	ug/kg C U
gamma-BHC (Lindane)	NA	2.300	ug/kg C U
gamma-Chlordane	NA	2.300	ug/kg C U
			3.500 ug/kg C UJ
			3.500 ug/kg C UJ
			3.500 ug/kg C UJ
			3.500 ug/kg C UJ

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1958		1959		1959							
SAMPLE NUMBER	114823		114812		114814							
SAMPLING DATE	4-5-5 06/06/93		3-5 06/05/93		8-8-5 06/05/93							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	17700.000	mg/kg	C	-	19700.000	mg/kg	C	J	2990.000	mg/kg	C	-
Antimony	15.500	mg/kg	C	-	29.200	mg/kg	C	J	15.200	mg/kg	C	-
Arsenic	13.800	mg/kg	C	-	6.100	mg/kg	C	J	8.700	mg/kg	C	-
Barium	130.000	mg/kg	C	-	144.000	mg/kg	C	J	43.400	mg/kg	C	-
Beryllium	1.000	mg/kg	C	-	1.500	mg/kg	C	J	0.210	mg/kg	C	-
Cadmium	1.300	mg/kg	C	-	1.400	mg/kg	C	J	1.500	mg/kg	C	-
Calcium	8100.000	mg/kg	C	-	136000.000	mg/kg	C	J	180000.000	mg/kg	C	-
Chromium	20.000	mg/kg	C	-	21.100	mg/kg	C	J	2.300	mg/kg	C	-
Cobalt	17.600	mg/kg	C	-	30.200	mg/kg	C	J	3.400	mg/kg	C	-
Copper	28.300	mg/kg	C	-	44.600	mg/kg	C	J	16.500	mg/kg	C	-
Cyanide	0.130	mg/kg	C	-	NA				0.120	mg/kg	C	-
Iron	36400.000	mg/kg	C	-	48100.000	mg/kg	C	-	3920.000	mg/kg	C	-
Lead	17.600	mg/kg	C	-	6.400	mg/kg	C	-	15.100	mg/kg	C	-
Magnesium	6850.000	mg/kg	C	-	40300.000	mg/kg	C	-	10300.000	mg/kg	C	-
Manganese	524.000	mg/kg	C	-	1020.000	mg/kg	C	J	370.000	mg/kg	C	-
Mercury	0.070	mg/kg	C	-	0.110	mg/kg	C	J	0.060	mg/kg	C	-
Molybdenum	1.800	mg/kg	C	-	5.100	mg/kg	C	J	1.700	mg/kg	C	-
Nickel	32.900	mg/kg	C	-	46.700	mg/kg	C	J	5.400	mg/kg	C	-
Potassium	1850.000	mg/kg	C	-	3010.000	mg/kg	C	J	773.000	mg/kg	C	-
Selenium	0.260	mg/kg	C	-	2.300	mg/kg	C	J	0.260	mg/kg	C	-
Silicon	2500.000	mg/kg	C	-	3810.000	mg/kg	C	J	4230.000	mg/kg	C	-
Silver	0.920	mg/kg	C	-	1.600	mg/kg	C	J	0.910	mg/kg	C	-
Sodium	373.000	mg/kg	C	-	308.000	mg/kg	C	J	306.000	mg/kg	C	-
Thallium	0.260	mg/kg	C	-	0.460	mg/kg	C	J	0.260	mg/kg	C	-
Vanadium	40.300	mg/kg	C	-	42.200	mg/kg	C	J	1.200	mg/kg	C	-
Zinc	84.100	mg/kg	C	-	122.000	mg/kg	C	J	28.500	mg/kg	C	-
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	13.000	ug/kg	C	UJ	23.000	ug/kg	C	UJ	12.000	ug/kg	C	U
1,1,2,2-Tetrachloroethane	13.000	ug/kg	C	UJ	23.000	ug/kg	C	UJ	12.000	ug/kg	C	U
1,1,2-Trichloroethane	13.000	ug/kg	C	UJ	23.000	ug/kg	C	UJ	12.000	ug/kg	C	U
1,1-Dichloroethane	13.000	ug/kg	C	UJ	5.000	ug/kg	C	J	12.000	ug/kg	C	U
1,1-Dichloroethene	13.000	ug/kg	C	UJ	23.000	ug/kg	C	UJ	12.000	ug/kg	C	U
1,2-Dichloroethane	13.000	ug/kg	C	UJ	23.000	ug/kg	C	UJ	12.000	ug/kg	C	U
1,2-Dichloroethene	13.000	ug/kg	C	UJ	23.000	ug/kg	C	UJ	12.000	ug/kg	C	U
2-Butanone	13.000	ug/kg	C	UJ	23.000	ug/kg	C	UJ	12.000	ug/kg	C	U
2-Hexanone	13.000	ug/kg	C	UJ	5.000	ug/kg	C	J	1.000	ug/kg	C	U
4-Methyl-2-pentanone	13.000	ug/kg	C	UJ	23.000	ug/kg	C	UJ	12.000	ug/kg	C	U
Acetone	13.000	ug/kg	C	UJ	34.000	ug/kg	C	J	7.000	ug/kg	C	U
Benzene	13.000	ug/kg	C	UJ	23.000	ug/kg	C	UJ	12.000	ug/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1958	1959	1959			
SAMPLE NUMBER	114823	114812	114814			
SAMPLING DATE	4.5-5 06/06/93	3-5 06/05/93	8-8.5 06/05/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Bromoform	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Bromomethane	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Carbon Tetrachloride	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Carbon disulfide	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Chlorobenzene	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Chloroethane	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Chloroform	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Chloromethane	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Dibromochloromethane	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Ethylbenzene	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Methylene chloride	13.000	ug/kg C UU	28.000	ug/kg C UU	16.000	ug/kg C UU
Styrene	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Tetrachloroethene	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Toluene	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Trichloroethene	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Vinyl Acetate	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Vinyl chloride	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
Xylenes, Total	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
cis-1,3-Dichloropropene	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
trans-1,3-Dichloropropene	13.000	ug/kg C UU	23.000	ug/kg C UU	12.000	ug/kg C UU
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
1,2-Dichlorobenzene	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
1,3-Dichlorobenzene	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
1,4-Dichlorobenzene	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2,4,5-Trichlorophenol	1000.000	ug/kg C UU	1800.000	ug/kg C UU	1000.000	ug/kg C UU
2,4,6-Trichlorophenol	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2,4-Dichlorophenol	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2,4-Dimethylphenol	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2,4-Dinitrophenol	2000.000	ug/kg C UU	3700.000	ug/kg C UU	2000.000	ug/kg C UU
2,4-Dinitrotoluene	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2,6-Dinitrotoluene	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2-Benzyl-4-chlorophenol	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2-Chloronaphthalene	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2-Chlorophenol	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2-Methylnaphthalene	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2-Methylphenol	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU
2-Nitroaniline	1000.000	ug/kg C UU	1800.000	ug/kg C UU	1000.000	ug/kg C UU
2-Nitrophenol	420.000	ug/kg C UU	760.000	ug/kg C UU	420.000	ug/kg C UU

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1958	1959	1959			
SAMPLE NUMBER	114823	114812	114814			
SAMPLING DATE	4.5-5 06/06/93	3-5 06/05/93	8-8.5 06/05/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	420.000	ug/kg C U	760.000	ug/kg C UJ	420.000	ug/kg C U
3-Nitroaniline	1000.000	ug/kg C UJ	1800.000	ug/kg C UJ	1000.000	ug/kg C U
4,6-Dinitro-2-methylphenol	1000.000	ug/kg C UJ	1800.000	ug/kg C UJ	1000.000	ug/kg C U
4-Bromophenyl phenyl ether	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
4-Chloro-3-methylphenol	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
4-Chlorophenylphenyl ether	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
4-Methylphenol	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
4-Nitroaniline	1000.000	ug/kg C UU	1800.000	ug/kg C UU	1000.000	ug/kg C UU
4-Nitrophenol	1000.000	ug/kg C UJ	1800.000	ug/kg C UU	1000.000	ug/kg C UU
Acenaphthene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Acenaphthylene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Anthracene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Benzo(a)anthracene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Benzo(a)pyrene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Benzo(b)fluoranthene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Benzo(g,h,i)perylene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Benzo(k)fluoranthene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Benzoic acid	2000.000	ug/kg C UJ	3700.000	ug/kg C UU	2000.000	ug/kg C UU
Benzyl alcohol	420.000	ug/kg C UJ	760.000	ug/kg C UU	420.000	ug/kg C UU
Butyl benzyl phthalate	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Carbazole	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Chrysene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Di-n-butyl phthalate	420.000	ug/kg C U	140.000	ug/kg C U	48.000	ug/kg C U
Di-n-octyl phthalate	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Dibenz(a,h)anthracene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Dibenzofuran	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Diethyl phthalate	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Dimethyl phthalate	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Fluoranthene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Fluorene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Hexachlorobenzene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Hexachlorobutadiene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Hexachlorocyclopentadiene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Hexachloroethane	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Isophorone	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
N-Nitroso-di-n-propylamine	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
N-Nitrosodimethylamine	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
N-Nitrosodiphenylamine	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Naphthalene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Nitrobenzene	420.000	ug/kg C U	760.000	ug/kg C U	420.000	ug/kg C U
Pentachlorophenol	1000.000	ug/kg C UJ	1800.000	ug/kg C UJ	1000.000	ug/kg C UJ

TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1958	1959	1959	
SAMPLE NUMBER	114823	114812	114814	
SAMPLING DATE	4.5-5 06/06/93	3-5 06/05/93	8-8.5 06/05/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Semivolatile Organics</u>				
Phenanthrene	420.000	ug/kg C U	760.000	ug/kg C UJ
Phenol	420.000	ug/kg C C U	760.000	ug/kg C UJ
Pyrene	420.000	ug/kg C C C U	760.000	ug/kg C C C U
Tributyl phosphate	420.000	ug/kg C C C C U	760.000	ug/kg C C C C U
bis(2-Chloroethoxy)methane	420.000	ug/kg C C C C C U	760.000	ug/kg C C C C C U
bis(2-Chloroethyl)ether	420.000	ug/kg C C C C C U	760.000	ug/kg C C C C C U
bis(2-Chloroisopropyl) ether	420.000	ug/kg C C C C C U	760.000	ug/kg C C C C C U
bis(2-Ethylhexyl) phthalate	420.000	ug/kg C C C C C U	260.000	ug/kg C C C C C U
p-Chloroaniline	420.000	ug/kg C C C C C U	760.000	ug/kg C C C C C U
<u>Pesticide Organics/PCBs</u>				
4,4'-DDD	4.100	ug/kg C C C C C U	7.700	ug/kg C C C C C U
4,4'-DDE	4.100	ug/kg C C C C C U	7.700	ug/kg C C C C C U
4,4'-DDT	4.100	ug/kg C C C C C U	7.700	ug/kg C C C C C U
Aldrin	2.100	ug/kg C C C C C U	4.000	ug/kg C C C C C U
Aroclor-1016	41.000	ug/kg C C C C C U	77.000	ug/kg C C C C C U
Aroclor-1221	84.000	ug/kg C C C C C U	160.000	ug/kg C C C C C U
Aroclor-1232	41.000	ug/kg C C C C C U	77.000	ug/kg C C C C C U
Aroclor-1242	41.000	ug/kg C C C C C U	77.000	ug/kg C C C C C U
Aroclor-1248	41.000	ug/kg C C C C C U	77.000	ug/kg C C C C C U
Aroclor-1254	41.000	ug/kg C C C C C U	77.000	ug/kg C C C C C U
Aroclor-1260	41.000	ug/kg C C C C C U	77.000	ug/kg C C C C C U
Dieldrin	4.100	ug/kg C C C C C U	7.700	ug/kg C C C C C U
Endosulfan II	4.100	ug/kg C C C C C U	7.700	ug/kg C C C C C U
Endosulfan sulfate	4.100	ug/kg C C C C C U	7.700	ug/kg C C C C C U
Endosulfan-I	2.100	ug/kg C C C C C U	4.000	ug/kg C C C C C U
Endrin	4.100	ug/kg C C C C C U	7.700	ug/kg C C C C C U
Endrin aldehyde	4.100	ug/kg C C C C C U	7.700	ug/kg C C C C C U
Endrin ketone	4.100	ug/kg C C C C C U	7.700	ug/kg C C C C C U
Heptachlor	2.100	ug/kg C C C C C U	4.000	ug/kg C C C C C U
Heptachlor epoxide	2.100	ug/kg C C C C C U	4.000	ug/kg C C C C C U
Methoxychlor	21.000	ug/kg C C C C C U	40.000	ug/kg C C C C C U
Toxaphene	210.000	ug/kg C C C C C U	400.000	ug/kg C C C C C U
alpha-BHC	2.100	ug/kg C C C C C U	4.000	ug/kg C C C C C U
alpha-Chlordane	4.100	ug/kg C C C C C U	4.000	ug/kg C C C C C U
beta-BHC	2.100	ug/kg C C C C C U	4.000	ug/kg C C C C C U
delta-BHC	2.100	ug/kg C C C C C U	4.000	ug/kg C C C C C U
gamma-BHC (Lindane)	2.100	ug/kg C C C C C U	4.000	ug/kg C C C C C U
gamma-Chlordane	4.100	ug/kg C C C C C U	4.000	ug/kg C C C C C U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1959		1960		1960							
SAMPLE NUMBER	114815		114734		114737							
SAMPLING DATE	11-13.5		5-6		13-13.5							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	13100.000	mg/kg	D	-	3160.000	mg/kg	C	-	4280.000	mg/kg	C	-
Antimony	15.400	mg/kg	C	-	1.100	mg/kg	C	-	1.200	mg/kg	C	-
Arsenic	7.500	mg/kg	C	-	2.100	mg/kg	C	-	3.800	mg/kg	C	-
Barium	57.200	mg/kg	C	-	42.400	mg/kg	C	-	21.900	mg/kg	C	-
Beryllium	0.820	mg/kg	C	-	0.430	mg/kg	C	-	0.460	mg/kg	C	-
Cadmium	0.940	mg/kg	C	-	1.100	mg/kg	C	-	1.200	mg/kg	C	-
Calcium	84900.000	mg/kg	C	-	254000.000	mg/kg	C	-	120000.000	mg/kg	C	-
Chromium	14.600	mg/kg	C	-	2.500	mg/kg	C	-	4.700	mg/kg	C	-
Cobalt	12.400	mg/kg	C	-	2.100	mg/kg	C	-	3.800	mg/kg	C	-
Copper	23.700	mg/kg	C	-	2.100	mg/kg	C	-	9.600	mg/kg	C	-
Cyanide	0.130	mg/kg	C	-	0.120	mg/kg	C	-	0.120	mg/kg	C	-
Iron	24700.000	mg/kg	C	-	3330.000	mg/kg	C	-	10600.000	mg/kg	C	-
Lead	10.900	mg/kg	C	-	0.450	mg/kg	C	-	6.200	mg/kg	C	-
Magnesium	25700.000	mg/kg	C	-	13800.000	mg/kg	C	-	36000.000	mg/kg	C	-
Manganese	498.000	mg/kg	C	-	480.000	mg/kg	C	-	424.000	mg/kg	C	-
Mercury	0.070	mg/kg	C	-	0.080	mg/kg	C	-	0.100	mg/kg	C	-
Molybdenum	1.800	mg/kg	C	-	2.100	mg/kg	C	-	2.800	mg/kg	C	-
Nickel	28.200	mg/kg	C	-	4.300	mg/kg	C	-	8.100	mg/kg	C	-
Potassium	3170.000	mg/kg	C	-	21.500	mg/kg	C	-	991.000	mg/kg	C	-
Selenium	0.250	mg/kg	C	-	0.360	mg/kg	C	-	0.500	mg/kg	C	-
Silicon	4060.000	mg/kg	C	-	506.000	mg/kg	C	-	908.000	mg/kg	C	-
Silver	0.920	mg/kg	C	-	2.100	mg/kg	C	-	2.500	mg/kg	C	-
Sodium	249.000	mg/kg	C	-	253.000	mg/kg	C	-	170.000	mg/kg	C	-
Thallium	0.260	mg/kg	C	-	0.360	mg/kg	C	-	0.500	mg/kg	C	-
Vanadium	23.600	mg/kg	C	-	3.400	mg/kg	C	-	14.000	mg/kg	C	-
Zinc	70.000	mg/kg	D	-	11.800	mg/kg	C	-	30.300	mg/kg	C	-
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1,2,2-Tetrachloroethane	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1,2-Trichloroethane	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1-Dichloroethane	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1-Dichloroethene	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloroethane	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloroethene	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloropropane	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
2-Butanone	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
2-Hexanone	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
4-Methyl-2-pentanone	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Acetone	13.000	ug/kg	C	U	12.000	ug/kg	C	U	5.000	ug/kg	C	U
Benzene	13.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1959	1960			1960								
SAMPLE NUMBER	114815	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
SAMPLING DATE	11-13-5 06/05/93					5-6 05/27/93				13-13.5 05/28/93			
CHEMICAL PARAMETERS													
<u>Volatile Organics</u>													
Bromodichloromethane	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Tetrachloride	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon disulfide	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroethane	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloromethane	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	23.000	ug/kg	C	U		12.000	ug/kg	C	U	77.000	ug/kg	C	U
Styrene	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Trichloroethene	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl Acetate	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	13.000	ug/kg	C	U		12.000	ug/kg	C	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>													
1,2,4-Trichlorobenzene	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
1,2-Dichlorobenzene	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
1,3-Dichlorobenzene	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
1,4-Dichlorobenzene	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4,5-Trichlorophenol	990.000	ug/kg	C	U		1400.000	ug/kg	C	U	1000.000	ug/kg	C	U
2,4,6-Trichlorophenol	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4-Dichlorophenol	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4-Dimethylphenol	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2,4-Dinitrophenol	2000.000	ug/kg	C	U		1400.000	ug/kg	C	U	1000.000	ug/kg	C	U
2,4-Dinitrotoluene	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2,6-Dinitrotoluene	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Benzyl-4-chlorophenol	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Chloronaphthalene	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Chlorophenol	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Methylnaphthalene	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Methylphenol	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U
2-Nitroaniline	990.000	ug/kg	C	U		1400.000	ug/kg	C	U	1000.000	ug/kg	C	U
2-Nitrophenol	410.000	ug/kg	C	U		590.000	ug/kg	C	U	410.000	ug/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1959	1960	1960			
SAMPLE NUMBER	114815	114734	114737			
SAMPLING DATE	11-13.5 06/05/93	5-6 05/27/93	13-13.5 05/28/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
3-Nitroaniline	990.000	ug/kg C UJ	1400.000	ug/kg C U	1000.000	ug/kg C U
4,6-Dinitro-2-methylphenol	990.000	ug/kg C UJ	1400.000	ug/kg C U	1000.000	ug/kg C U
4-Bromophenyl phenyl ether	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
4-Chloro-3-methylphenol	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
4-Chlorophenylphenyl ether	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
4-Methylphenol	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
4-Nitroaniline	990.000	ug/kg C UJ	1400.000	ug/kg C U	1000.000	ug/kg C U
4-Nitrophenol	990.000	ug/kg C UJ	1400.000	ug/kg C U	1000.000	ug/kg C U
Acenaphthene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Acenaphthylene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Anthracene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Benzo(a)anthracene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Benzo(a)pyrene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Benzo(b)fluoranthene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Benzo(g,h,i)perylene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Benzo(k)fluoranthene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Benzoic acid	2000.000	ug/kg C UJ	2900.000	ug/kg C U	2000.000	ug/kg C U
Benzyl alcohol	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Butyl benzyl phthalate	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Carbazole	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Chrysene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Di-n-butyl phthalate	62.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Di-n-octyl phthalate	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Dibenzo(a,h)anthracene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Dibenzofuran	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Diethyl phthalate	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Dimethyl phthalate	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Fluoranthene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Fluorene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Hexachlorobenzene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Hexachlorobutadiene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Hexachlorocyclopentadiene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Hexachloroethane	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Isophorone	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
N-Nitroso-di-n-propylamine	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
N-Nitrosodimethylamine	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
N-Nitrosodiphenylamine	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Naphthalene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Nitrobenzene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Pentachlorophenol	990.000	ug/kg C UJ	1400.000	ug/kg C U	1000.000	ug/kg C U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1959	1960	1960			
SAMPLE NUMBER	114815	114734	114737			
SAMPLING DATE	11-13.5 06/05/93	5-6 05/27/93	13-13.5 05/28/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Phenol	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Pyrene	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
Tributyl phosphate	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroethoxy)methane	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroethyl)ether	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
bis(2-Chloroisopropyl) ether	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
p-Chloroaniline	410.000	ug/kg C U	590.000	ug/kg C U	410.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.200	ug/kg C U	6.000	ug/kg C U	4.200	ug/kg C U
4,4'-DDE	4.200	ug/kg C U	6.000	ug/kg C U	4.200	ug/kg C U
4,4'-DDT	4.200	ug/kg C U	6.000	ug/kg C U	4.200	ug/kg C U
Aldrin	2.200	ug/kg C U	3.100	ug/kg C U	2.100	ug/kg C U
Aroclor-1016	42.000	ug/kg C U	60.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1221	85.000	ug/kg C U	120.000	ug/kg C U	85.000	ug/kg C U
Aroclor-1232	42.000	ug/kg C U	60.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1242	42.000	ug/kg C U	60.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1248	42.000	ug/kg C U	60.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1254	42.000	ug/kg C U	60.000	ug/kg C U	42.000	ug/kg C U
Aroclor-1260	42.000	ug/kg C U	60.000	ug/kg C U	42.000	ug/kg C U
Die�drin	4.200	ug/kg C U	6.000	ug/kg C U	4.200	ug/kg C U
Endosulfan II	4.200	ug/kg C U	6.000	ug/kg C U	4.200	ug/kg C U
Endosulfan sulfate	4.200	ug/kg C U	6.000	ug/kg C U	4.200	ug/kg C U
Endosulfan-I	2.200	ug/kg C U	3.100	ug/kg C U	2.100	ug/kg C U
Endrin	4.200	ug/kg C U	6.000	ug/kg C U	4.200	ug/kg C U
Endrin aldehyde	4.200	ug/kg C U	6.000	ug/kg C U	4.200	ug/kg C U
Endrin ketone	4.200	ug/kg C U	6.000	ug/kg C U	4.200	ug/kg C U
Heptachlor	2.200	ug/kg C U	3.100	ug/kg C U	2.100	ug/kg C U
Heptachlor epoxide	2.200	ug/kg C U	3.100	ug/kg C U	2.100	ug/kg C U
Methoxychlor	22.000	ug/kg C U	31.000	ug/kg C U	21.000	ug/kg C U
Toxaphene	220.000	ug/kg C U	310.000	ug/kg C U	210.000	ug/kg C U
alpha-BHC	2.200	ug/kg C U	3.100	ug/kg C U	2.100	ug/kg C U
alpha-Chlordane	2.200	ug/kg C U	3.100	ug/kg C U	2.100	ug/kg C U
beta-BHC	2.200	ug/kg C U	3.100	ug/kg C U	2.100	ug/kg C U
delta-BHC	2.200	ug/kg C U	3.100	ug/kg C U	2.100	ug/kg C U
gamma-BHC (Lindane)	2.200	ug/kg C U	3.100	ug/kg C U	2.100	ug/kg C U
gamma-Chlordane	2.200	ug/kg C U	3.100	ug/kg C U	2.100	ug/kg C U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1961	1961	1962			
SAMPLE NUMBER	114745	114743	114605			
SAMPLING DATE	2-4 06/01/93	12-13 06/01/93	4.5-7 05/20/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	5810.000	mg/kg C J	12000.000	mg/kg C -	3580.000	mg/kg C J
Antimony	2.700	mg/kg C UJ	1.200	mg/kg C -	1.900	mg/kg C J
Arsenic	4.000	mg/kg C J	4.300	mg/kg C -	2.600	mg/kg C C
Barium	54.400	mg/kg C J	49.100	mg/kg C -	46.500	mg/kg C C
Beryllium	0.830	mg/kg C UJ	0.470	mg/kg C -	0.740	mg/kg C C
Cadmium	2.100	mg/kg C UJ	1.200	mg/kg C -	1.900	mg/kg C C
Calcium	328000.000	mg/kg C J	83600.000	mg/kg C -	270000.000	mg/kg C C
Chromium	6.100	mg/kg C J	13.700	mg/kg C -	3.700	mg/kg C C
Cobalt	4.100	mg/kg C UJ	7.500	mg/kg C -	3.700	mg/kg C C
Copper	4.100	mg/kg C UJ	20.300	mg/kg C -	3.700	mg/kg C C
Cyanide	0.220	mg/kg C UJ	0.130	mg/kg C -	0.190	mg/kg C C
Iron	NA		21700.000	mg/kg C -	3410.000	mg/kg C -
Lead	0.810	mg/kg C UJ	10.200	mg/kg C -	0.900	mg/kg C C
Magnesium	21000.000	mg/kg C J	27100.000	mg/kg C -	12800.000	mg/kg C C
Manganese	709.000	mg/kg C J	401.000	mg/kg C -	501.000	mg/kg C C
Mercury	0.220	mg/kg C UJ	0.120	mg/kg C -	0.130	mg/kg C C
Molybdenum	4.100	mg/kg C UJ	6.700	mg/kg C -	3.700	mg/kg C C
Nickel	8.300	mg/kg C UJ	22.800	mg/kg C -	7.400	mg/kg C C
Potassium	41.500	mg/kg C UJ	2500.000	mg/kg C -	37.200	mg/kg C C
Selenium	0.810	mg/kg C UJ	0.430	mg/kg C -	0.700	mg/kg C C
Silicon	5940.000	mg/kg C J	1230.000	mg/kg C -	3950.000	mg/kg C C
Silver	4.100	mg/kg C UJ	5.800	mg/kg C -	3.700	mg/kg C C
Sodium	232.000	mg/kg C J	157.000	mg/kg C -	197.000	mg/kg C C
Thallium	NA		0.430	mg/kg C -	0.700	mg/kg C C
Vanadium	7.500	mg/kg C J	28.300	mg/kg C -	3.900	mg/kg C C
Zinc	25.600	mg/kg C J	64.600	mg/kg C -	13.300	mg/kg C C
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	22.000	ug/kg C U	12.000	ug/kg C -	19.000	ug/kg C U
1,1,2,2-Tetrachloroethane	22.000	ug/kg C C	12.000	ug/kg C -	19.000	ug/kg C C
1,1,2-Trichloroethane	22.000	ug/kg C UU	12.000	ug/kg C -	19.000	ug/kg C UU
1,1-Dichloroethane	22.000	ug/kg C UU	12.000	ug/kg C -	19.000	ug/kg C C
1,1-Dichloroethene	22.000	ug/kg C UU	12.000	ug/kg C -	19.000	ug/kg C C
1,2-Dichloroethane	22.000	ug/kg C UU	12.000	ug/kg C -	19.000	ug/kg C C
1,2-Dichloroethene	22.000	ug/kg C UU	12.000	ug/kg C -	19.000	ug/kg C C
1,2-Dichloropropane	22.000	ug/kg C UU	12.000	ug/kg C -	19.000	ug/kg C C
2-Butanone	22.000	ug/kg C UU	12.000	ug/kg C -	19.000	ug/kg C C
2-Hexanone	22.000	ug/kg C UU	12.000	ug/kg C -	19.000	ug/kg C C
4-Methyl-2-pentanone	22.000	ug/kg C UU	12.000	ug/kg C -	19.000	ug/kg C C
Acetone	38.000	ug/kg C -	3.000	ug/kg C -	19.000	ug/kg C C
Benzene	22.000	ug/kg C U	12.000	ug/kg C -	19.000	ug/kg C C

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1961	1961	1962	
SAMPLE NUMBER	114745	114743	114605	
SAMPLING DATE	2-4 06/01/93	12-13 06/01/93	4-5-7 05/20/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Volatile Organics</u>				
Bromodichloromethane	22.000	ug/kg C U	12.000	ug/kg C U
Bromoform	22.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	22.000	ug/kg C U	12.000	ug/kg C U
Carbon Tetrachloride	22.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	22.000	ug/kg C U	12.000	ug/kg C U
Chlorobenzene	22.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	22.000	ug/kg C U	12.000	ug/kg C U
Chloroform	22.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	22.000	ug/kg C U	12.000	ug/kg C U
Dibromochloromethane	22.000	ug/kg C U	12.000	ug/kg C U
Ethylbenzene	22.000	ug/kg C U	12.000	ug/kg C U
Methylene chloride	37.000	ug/kg C U	12.000	ug/kg C U
Styrene	22.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethene	22.000	ug/kg C U	12.000	ug/kg C U
Toluene	5.000	ug/kg C U	12.000	ug/kg C U
Trichloroethene	22.000	ug/kg C U	12.000	ug/kg C U
Vinyl Acetate	22.000	ug/kg C U	12.000	ug/kg C U
Vinyl chloride	22.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	22.000	ug/kg C U	12.000	ug/kg C U
cis-1,3-Dichloropropene	22.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	22.000	ug/kg C U	12.000	ug/kg C U
<u>Semivolatile Organics</u>				
1,2,4-Trichlorobenzene	740.000	ug/kg C U	410.000	ug/kg C U
1,2-Dichlorobenzene	740.000	ug/kg C U	410.000	ug/kg C U
1,3-Dichlorobenzene	740.000	ug/kg C U	410.000	ug/kg C U
1,4-Dichlorobenzene	740.000	ug/kg C U	410.000	ug/kg C U
2,4,5-Trichlorophenol	1800.000	ug/kg C U	1000.000	ug/kg C U
2,4,6-Trichlorophenol	740.000	ug/kg C U	410.000	ug/kg C U
2,4-Dichlorophenol	740.000	ug/kg C U	410.000	ug/kg C U
2,4-Dimethylphenol	740.000	ug/kg C U	410.000	ug/kg C U
2,4-Dinitrophenol	1800.000	ug/kg C U	1000.000	ug/kg C U
2,4-Dinitrotoluene	740.000	ug/kg C U	410.000	ug/kg C U
2,6-Dinitrotoluene	740.000	ug/kg C U	410.000	ug/kg C U
2-Benzyl-4-chlorophenol	740.000	ug/kg C U	410.000	ug/kg C U
2-Chloronaphthalene	740.000	ug/kg C U	410.000	ug/kg C U
2-Chlorophenol	740.000	ug/kg C U	410.000	ug/kg C U
2-Methylnaphthalene	740.000	ug/kg C U	410.000	ug/kg C U
2-Methylphenol	740.000	ug/kg C U	410.000	ug/kg C U
2-Nitroaniline	1800.000	ug/kg C U	1000.000	ug/kg C U
2-Nitrophenol	740.000	ug/kg C U	410.000	ug/kg C U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1961	1961	1962			
SAMPLE NUMBER	114745	114743	114605			
SAMPLING DATE	2-4 06/01/93	12-13 06/01/93	4-5-7 05/20/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C UJ
3-Nitroaniline	1800.000	ug/kg C U	1000.000	ug/kg C U	1500.000	ug/kg C R
4,6-Dinitro-2-methylphenol	1800.000	ug/kg C U	1000.000	ug/kg C U	1500.000	ug/kg C U
4-Bromophenyl phenyl ether	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
4-Chloro-3-methylphenol	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
4-Chlorophenylphenyl ether	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
4-Methylphenol	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
4-Nitroaniline	1800.000	ug/kg C U	1000.000	ug/kg C U	1500.000	ug/kg C U
4-Nitrophenol	1800.000	ug/kg C U	1000.000	ug/kg C U	1500.000	ug/kg C U
Acenaphthene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Acenaphthylene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Anthracene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Benzo(a)anthracene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Benzo(a)pyrene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Benzo(b)fluoranthene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Benzo(g,h,i)perylene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Benzo(k)fluoranthene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Benzoic acid	3600.000	ug/kg C U	2000.000	ug/kg C U	NA	NA
Benzyl alcohol	740.000	ug/kg C R	410.000	ug/kg C R	610.000	ug/kg C U
Butyl benzyl phthalate	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Carbazole	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Chrysene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Di-n-butyl phthalate	740.000	ug/kg C U	68.000	ug/kg C U	72.000	ug/kg C U
Di-n-octyl phthalate	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Dibenz(a,h)anthracene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Dibenzofuran	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Diethyl phthalate	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Dimethyl phthalate	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Fluoranthene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Fluorene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Hexachlorobenzene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Hexachlorobutadiene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Hexachlorocyclopentadiene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Hexachloroethane	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Indeno(1,2,3-cd)pyrene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Isophorone	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
N-Nitroso-di-n-propylamine	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
N-Nitrosodimethylamine	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
N-Nitrosodiphenylamine	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Naphthalene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Nitrobenzene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Pentachlorophenol	1800.000	ug/kg C U	1000.000	ug/kg C U	1500.000	ug/kg C U

TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1961	1961	1962			
SAMPLE NUMBER	114745	114743	114605			
SAMPLING DATE	2-4 06/01/93	12-13 06/01/93	4-5-7 05/20/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenanthrene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Phenol	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Pyrene	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
Tributyl phosphate	740.000	ug/kg C U	410.000	ug/kg C U	NA	
bis(2-Chloroethoxy)methane	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
bis(2-Chloroethyl)ether	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
bis(2-Chloroisopropyl) ether	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	150.000	ug/kg C U	78.000	ug/kg C U	610.000	ug/kg C U
p-Chloroaniline	740.000	ug/kg C U	410.000	ug/kg C U	610.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	7.400	ug/kg C UJ	4.100	ug/kg C U	6.100	ug/kg C U
4,4'-DDE	7.400	ug/kg C UU	4.100	ug/kg C UU	6.100	ug/kg C U
4,4'-DDT	7.400	ug/kg C UU	4.100	ug/kg C UU	6.100	ug/kg C U
Aldrin	3.800	ug/kg C UU	2.100	ug/kg C UU	3.100	ug/kg C UU
Aroclor-1016	74.000	ug/kg C UU	41.000	ug/kg C UU	61.000	ug/kg C UU
Aroclor-1221	150.000	ug/kg C UU	84.000	ug/kg C UU	120.000	ug/kg C UU
Aroclor-1232	74.000	ug/kg C UU	41.000	ug/kg C UU	61.000	ug/kg C UU
Aroclor-1242	74.000	ug/kg C UU	41.000	ug/kg C UU	61.000	ug/kg C UU
Aroclor-1248	74.000	ug/kg C UU	41.000	ug/kg C UU	61.000	ug/kg C UU
Aroclor-1254	74.000	ug/kg C UU	41.000	ug/kg C UU	61.000	ug/kg C UU
Aroclor-1260	74.000	ug/kg C UU	41.000	ug/kg C UU	61.000	ug/kg C UU
Dieldrin	7.400	ug/kg C UU	4.100	ug/kg C UU	6.100	ug/kg C UU
Endosulfan II	7.400	ug/kg C UU	4.100	ug/kg C UU	6.100	ug/kg C UU
Endosulfan sulfate	7.400	ug/kg C UU	4.100	ug/kg C UU	6.100	ug/kg C UU
Endosulfan-I	3.800	ug/kg C UU	2.100	ug/kg C UU	3.100	ug/kg C UU
Endrin	7.400	ug/kg C UU	4.100	ug/kg C UU	6.100	ug/kg C UU
Endrin aldehyde	7.400	ug/kg C UU	4.100	ug/kg C UU	6.100	ug/kg C UU
Endrin ketone	7.400	ug/kg C UU	4.100	ug/kg C UU	6.100	ug/kg C UU
Heptachlor	3.800	ug/kg C UU	2.100	ug/kg C UU	3.100	ug/kg C UU
Heptachlor epoxide	3.800	ug/kg C UU	2.100	ug/kg C UU	3.100	ug/kg C UU
Methoxychlor	38.000	ug/kg C UU	21.000	ug/kg C UU	31.000	ug/kg C UU
Toxaphene	380.000	ug/kg C UU	210.000	ug/kg C UU	310.000	ug/kg C UU
alpha-BHC	3.800	ug/kg C UU	2.100	ug/kg C UU	3.100	ug/kg C UU
alpha-Chlordane	3.800	ug/kg C UU	2.100	ug/kg C UU	3.100	ug/kg C UU
beta-BHC	3.800	ug/kg C UU	2.100	ug/kg C UU	3.100	ug/kg C UU
delta-BHC	3.800	ug/kg C UU	2.100	ug/kg C UU	3.100	ug/kg C UU
gamma-BHC (Lindane)	3.800	ug/kg C UU	2.100	ug/kg C UU	3.100	ug/kg C UU
gamma-Chlordane	3.800	ug/kg C UU	2.100	ug/kg C UU	3.100	ug/kg C UU

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February 18, 1994

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1962	1963	1963
SAMPLE NUMBER	114607	114762	114766
SAMPLING DATE	12-5-14 05/25/93	2-4 06/03/93	13-5-15.5 06/03/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
Inorganics			
Aluminum	3780.000	mg/kg C	3770.000
Antimony	1.200	mg/kg C	1.700
Arsenic	1.100	mg/kg C	2.500
Barium	15.400	mg/kg C	54.200
Beryllium	0.490	mg/kg C	0.660
Cadmium	1.200	mg/kg C	1.700
Calcium	112000.000	mg/kg C	289000.000
Chromium	4.300	mg/kg C	3.400
Cobalt	2.800	mg/kg C	3.300
Copper	9.300	mg/kg C	3.300
Cyanide	0.120	mg/kg C	0.190
Iron	7440.000	mg/kg C	4010.000
Lead	6.100	mg/kg C	0.770
Magnesium	34200.000	mg/kg C	14200.000
Manganese	285.000	mg/kg C	502.000
Mercury	0.080	mg/kg C	0.160
Molybdenum	2.500	mg/kg C	3.300
Nickel	7.000	mg/kg C	6.600
Potassium	789.000	mg/kg C	33.200
Selenium	0.520	mg/kg C	0.700
Silicon	578.000	mg/kg C	3390.000
Silver	2.500	mg/kg C	3.300
Sodium	160.000	mg/kg C	228.000
Thallium	0.490	mg/kg C	0.700
Vanadium	10.900	mg/kg C	5.000
Zinc	31.900	mg/kg C	16.900
Volatile Organics			
1,1,1-Trichloroethane	12.000	ug/kg C	19.000
1,1,2,2-Tetrachloroethane	12.000	ug/kg C	19.000
1,1,2-Trichloroethane	12.000	ug/kg C	19.000
1,1-Dichloroethane	12.000	ug/kg C	19.000
1,1-Dichloroethene	12.000	ug/kg C	19.000
1,2-Dichloroethane	12.000	ug/kg C	19.000
1,2-Dichloroethene	12.000	ug/kg C	19.000
1,2-Dichloropropane	12.000	ug/kg C	19.000
2-Butanone	12.000	ug/kg C	19.000
2-Hexanone	12.000	ug/kg C	19.000
4-Methyl-2-pentanone	12.000	ug/kg C	19.000
Acetone	12.000	ug/kg C	19.000
Benzene	12.000	ug/kg C	19.000

TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1962	1963	1963			
SAMPLE NUMBER	114607	114762	114766			
SAMPLING DATE	12-5-14 05/25/93	2-4 06/03/93	13.5-15.5 06/03/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
Bromodichloromethane	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Bromoform	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Bromomethane	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Carbon Tetrachloride	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Carbon disulfide	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Chlorobenzene	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Chloroethane	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Chloroform	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Chloromethane	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Dibromochloromethane	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Ethylbenzene	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Methylene chloride	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Styrene	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Tetrachloroethene	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Toluene	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Trichloroethene	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Vinyl Acetate	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Vinyl chloride	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
Xylenes, Total	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
cis-1,3-Dichloropropene	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
trans-1,3-Dichloropropene	12.000	ug/kg C U	19.000	ug/kg D U	12.000	ug/kg D U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
1,2-Dichlorobenzene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
1,3-Dichlorobenzene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
1,4-Dichlorobenzene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2,4,5-Trichlorophenol	990.000	ug/kg C U	1500.000	ug/kg D U	960.000	ug/kg D R
2,4,6-Trichlorophenol	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2,4-Dichlorophenol	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2,4-Dimethylphenol	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2,4-Dinitrophenol	990.000	ug/kg C U	1500.000	ug/kg D U	960.000	ug/kg D R
2,4-Dinitrotoluene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2,6-Dinitrotoluene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2-Benzyl-4-chlorophenol	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2-Chloronaphthalene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2-Chlorophenol	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2-Methylnaphthalene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2-Methylphenol	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
2-Nitroaniline	990.000	ug/kg C U	1500.000	ug/kg D U	960.000	ug/kg D R
2-Nitrophenol	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R

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February 18, 1994

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1962	1963	1963			
SAMPLE NUMBER	114607	114762	114766			
SAMPLING DATE	12.5-14 05/25/93	2-4 06/03/93	13.5-15.5 06/03/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>						
3,3'-Dichlorobenzidine	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
3-Nitroaniline	990.000	ug/kg C U	1500.000	ug/kg D U	960.000	ug/kg D R
4,6-Dinitro-2-methylphenol	990.000	ug/kg C U	1500.000	ug/kg D U	960.000	ug/kg D R
4-Bromophenyl phenyl ether	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
4-Chloro-3-methylphenol	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
4-Chlorophenylphenyl ether	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
4-Methylphenol	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
4-Nitroaniline	990.000	ug/kg C U	1500.000	ug/kg D U	960.000	ug/kg D R
4-Nitrophenol	990.000	ug/kg C U	1500.000	ug/kg D U	960.000	ug/kg D R
Acenaphthene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Acenaphthylene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Anthracene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Benzo(a)anthracene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Benzo(a)pyrene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Benzo(b)fluoranthene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Benzo(g,h,i)perylene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Benzo(k)fluoranthene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Benzoic acid	2000.000	ug/kg C U	3000.000	ug/kg D U	1900.000	ug/kg D R
Benzyl alcohol	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Butyl benzyl phthalate	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Carbazole	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Chrysene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Di-n-butyl phthalate	2.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Di-n-octyl phthalate	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Dibenzo(a,h)anthracene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Dibenzofuran	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Diethyl phthalate	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Dimethyl phthalate	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Fluoranthene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Fluorene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Hexachlorobenzene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Hexachlorobutadiene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Hexachlorocyclopentadiene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Hexachloroethane	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Indeno(1,2,3-cd)pyrene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Isophorone	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
N-Nitroso-di-n-propylamine	410.000	ug/kg C U	620.000	ug/kg D U	790.000	ug/kg D R
N-Nitrosodimethylamine	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
N-Nitrosodiphenylamine	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Naphthalene	410.000	ug/kg C U	620.000	ug/kg D U	390.000	ug/kg D R
Nitrobenzene	410.000	ug/kg C U	620.000	ug/kg D U	790.000	ug/kg D R
Pentachlorophenol	990.000	ug/kg C U	1500.000	ug/kg D U	960.000	ug/kg D R

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1962				1963				1963			
SAMPLE NUMBER	114607				114762				114766			
SAMPLING DATE	12.5-14				2-4				13.5-15.5			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Phenanthrene	410.000	ug/kg	C	U	620.000	ug/kg	D	U	390.000	ug/kg	D	UJ
Pheno1	410.000	ug/kg	C	U	620.000	ug/kg	D	U	390.000	ug/kg	D	R
Pyrene	410.000	ug/kg	C	U	620.000	ug/kg	D	U	390.000	ug/kg	D	UJ
Tributyl phosphate	410.000	ug/kg	C	U	620.000	ug/kg	D	U	390.000	ug/kg	D	R
bis(2-Chloroethoxy)methane	410.000	ug/kg	C	U	620.000	ug/kg	D	U	390.000	ug/kg	D	R
bis(2-Chloroethyl)ether	410.000	ug/kg	C	U	620.000	ug/kg	D	U	390.000	ug/kg	D	R
bis(2-Chloroisopropyl) ether	410.000	ug/kg	C	U	620.000	ug/kg	D	U	390.000	ug/kg	D	R
bis(2-Ethylhexyl) phthalate	2.000	ug/kg	C	J	88.000	ug/kg	D	J	390.000	ug/kg	D	R
p-Chloroaniline	410.000	ug/kg	C	U	620.000	ug/kg	D	U	390.000	ug/kg	D	R
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	4.100	ug/kg	C	U	6.300	ug/kg	D	UJ	3.900	ug/kg	D	U
4,4'-DDE	4.100	ug/kg	C	U	6.300	ug/kg	D	UJ	3.900	ug/kg	D	U
4,4'-DDT	4.100	ug/kg	C	U	6.300	ug/kg	D	UJ	3.900	ug/kg	D	U
Aldrin	2.100	ug/kg	C	U	3.200	ug/kg	D	UJ	2.000	ug/kg	D	U
Aroclor-1016	41.000	ug/kg	C	U	63.000	ug/kg	D	U	39.000	ug/kg	D	U
Aroclor-1221	84.000	ug/kg	C	U	130.000	ug/kg	D	U	80.000	ug/kg	D	U
Aroclor-1232	41.000	ug/kg	C	U	63.000	ug/kg	D	U	39.000	ug/kg	D	U
Aroclor-1242	41.000	ug/kg	C	U	63.000	ug/kg	D	U	39.000	ug/kg	D	U
Aroclor-1248	41.000	ug/kg	C	U	63.000	ug/kg	D	U	39.000	ug/kg	D	U
Aroclor-1254	41.000	ug/kg	C	U	63.000	ug/kg	D	U	39.000	ug/kg	D	U
Aroclor-1260	41.000	ug/kg	C	U	63.000	ug/kg	D	U	39.000	ug/kg	D	U
Dieldrin	4.100	ug/kg	C	U	6.300	ug/kg	D	UJ	3.900	ug/kg	D	U
Endosulfan II	4.100	ug/kg	C	U	6.300	ug/kg	D	UJ	3.900	ug/kg	D	U
Endosulfan sulfate	4.100	ug/kg	C	U	6.300	ug/kg	D	UJ	3.900	ug/kg	D	U
Endosulfan-I	2.100	ug/kg	C	U	3.200	ug/kg	D	UJ	2.000	ug/kg	D	U
Endrin	4.100	ug/kg	C	U	6.300	ug/kg	D	UJ	3.900	ug/kg	D	UJ
Endrin aldehyde	4.100	ug/kg	C	J	6.300	ug/kg	D	UJ	3.900	ug/kg	D	UJ
Endrin ketone	4.100	ug/kg	C	U	6.300	ug/kg	D	UJ	3.900	ug/kg	D	U
Heptachlor	2.100	ug/kg	C	U	3.200	ug/kg	D	UJ	2.000	ug/kg	D	U
Heptachlor epoxide	2.100	ug/kg	C	U	3.200	ug/kg	D	UJ	2.000	ug/kg	D	U
Methoxychlor	21.000	ug/kg	C	U	32.000	ug/kg	D	UJ	20.000	ug/kg	D	U
Toxaphene	210.000	ug/kg	C	U	320.000	ug/kg	D	U	200.000	ug/kg	D	U
alpha-BHC	2.100	ug/kg	C	U	3.200	ug/kg	D	UJ	2.000	ug/kg	D	U
alpha-Chlordane	2.100	ug/kg	C	U	3.200	ug/kg	D	UJ	2.000	ug/kg	D	U
beta-BHC	2.100	ug/kg	C	U	3.200	ug/kg	D	UJ	2.000	ug/kg	D	U
delta-BHC	2.100	ug/kg	C	UJ	3.200	ug/kg	D	UJ	2.000	ug/kg	D	U
gamma-BHC (Lindane)	2.100	ug/kg	C	U	3.200	ug/kg	D	UJ	2.000	ug/kg	D	U
gamma-Chlordane	2.100	ug/kg	C	U	3.200	ug/kg	D	UJ	2.000	ug/kg	D	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1963	BORING NUMBER	1963	BORING NUMBER	LSP-SS-03								
SAMPLE NUMBER	114874	SAMPLE NUMBER	114879	SAMPLE NUMBER	114469								
SAMPLING DATE	17-18 06/11/93	SAMPLING DATE	18-18.5 06/14/93	SAMPLING DATE	0.5-1 05/01/93								
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	
Inorganics													
Aluminum	8090.000	mg/kg	C	-	NA				12700.000	mg/kg	C	-	
Antimony	1.000	mg/kg	C	-	NA				0.360	mg/kg	C	U	
Arsenic	3.800	mg/kg	C	-	NA				8.500	mg/kg	C	U	
Barium	53.100	mg/kg	C	-	NA				104.000	mg/kg	C	U	
Beryllium	0.680	mg/kg	C	-	NA				1.400	mg/kg	C	-	
Cadmium	1.000	mg/kg	C	-	NA				1.300	mg/kg	C	-	
Calcium	107000.000	mg/kg	C	-	NA				30100.000	mg/kg	C	-	
Chromium	9.200	mg/kg	C	-	NA				18.000	mg/kg	C	-	
Cobalt	6.800	mg/kg	C	-	NA				11.800	mg/kg	C	-	
Copper	16.400	mg/kg	C	-	NA				23.900	mg/kg	C	-	
Cyanide	0.120	mg/kg	C	-	NA				0.120	mg/kg	C	U	
Iron	17100.000	mg/kg	C	-	NA				24300.000	mg/kg	C	U	
Lead	9.000	mg/kg	C	-	NA				13.100	mg/kg	C	-	
Magnesium	37800.000	mg/kg	C	-	NA				11200.000	mg/kg	C	-	
Manganese	439.000	mg/kg	C	-	NA				572.000	mg/kg	C	U	
Mercury	0.110	mg/kg	C	-	NA				0.120	mg/kg	C	U	
Molybdenum	5.200	mg/kg	C	-	NA				1.900	mg/kg	C	U	
Nickel	17.600	mg/kg	C	-	NA				22.200	mg/kg	C	-	
Potassium	1780.000	mg/kg	C	-	NA				1090.000	mg/kg	C	U	
Selenium	0.400	mg/kg	C	-	NA				0.240	mg/kg	C	U	
Silicon	789.000	mg/kg	C	-	NA				950.000	mg/kg	C	U	
Silver	3.900	mg/kg	C	-	NA				0.490	mg/kg	C	U	
Sodium	172.000	mg/kg	C	-	NA				94.500	mg/kg	C	-	
Thallium	0.400	mg/kg	C	-	NA				0.240	mg/kg	C	U	
Vanadium	18.500	mg/kg	C	-	NA				28.800	mg/kg	C	U	
Zinc	46.300	mg/kg	C	-	NA				57.500	mg/kg	C	U	
Volatile Organics													
1,1,1-Trichloroethane	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1,2,2-Tetrachloroethane	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1,2-Trichloroethane	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1-Dichloroethane	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,1-Dichloroethene	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloroethane	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloroethene	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U
1,2-Dichloropropane	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U
2-Butanone	NA					2.000	ug/kg	C	U	12.000	ug/kg	C	U
2-Hexanone	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U
4-Methyl-2-pentanone	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U
Acetone	NA					10.000	ug/kg	C	U	12.000	ug/kg	C	U
Benzene	NA					12.000	ug/kg	C	U	12.000	ug/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1963	1963	LSP-SS-03			
SAMPLE NUMBER	114874	114879	114469			
SAMPLING DATE	17-18 06/11/93	18-18.5 06/14/93	0.5-1 05/01/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ	RESULTS	UNITS L VQ
<u>Volatile Organics</u>						
Bromodichloromethane	NA		12.000	ug/kg C U	12.000	ug/kg C U
Bromoform	NA		12.000	ug/kg C U	12.000	ug/kg C U
Bromomethane	NA		12.000	ug/kg C U	12.000	ug/kg C U
Carbon Tetrachloride	NA		12.000	ug/kg C U	12.000	ug/kg C U
Carbon disulfide	NA		12.000	ug/kg C U	12.000	ug/kg C U
Chlorobenzene	NA		12.000	ug/kg C U	12.000	ug/kg C U
Chloroethane	NA		12.000	ug/kg C U	12.000	ug/kg C U
Chloroform	NA		12.000	ug/kg C U	12.000	ug/kg C U
Chloromethane	NA		12.000	ug/kg C U	12.000	ug/kg C U
Dibromochloromethane	NA		12.000	ug/kg C U	12.000	ug/kg C U
Ethylbenzene	NA		12.000	ug/kg C U	12.000	ug/kg C U
Methylene chloride	NA		12.000	ug/kg C U	12.000	ug/kg C U
Styrene	NA		12.000	ug/kg C U	12.000	ug/kg C U
Tetrachloroethylene	NA		12.000	ug/kg C U	12.000	ug/kg C U
Toluene	NA		12.000	ug/kg C U	12.000	ug/kg C U
Trichloroethylene	NA		12.000	ug/kg C U	12.000	ug/kg C U
Vinyl Acetate	NA		12.000	ug/kg C U	NA	
Vinyl chloride	NA		12.000	ug/kg C U	12.000	ug/kg C U
Xylenes, Total	NA		12.000	ug/kg C U	12.000	ug/kg C U
cis-1,3-Dichloropropene	NA		12.000	ug/kg C U	12.000	ug/kg C U
trans-1,3-Dichloropropene	NA		12.000	ug/kg C U	12.000	ug/kg C U
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	410.000	ug/kg C U	NA		400.000	ug/kg C U
1,2-Dichlorobenzene	410.000	ug/kg C U	NA		400.000	ug/kg C U
1,3-Dichlorobenzene	410.000	ug/kg C U	NA		400.000	ug/kg C U
1,4-Dichlorobenzene	410.000	ug/kg C U	NA		400.000	ug/kg C U
2,4,5-Trichlorophenol	1000.000	ug/kg C U	NA		970.000	ug/kg C U
2,4,6-Trichlorophenol	410.000	ug/kg C U	NA		400.000	ug/kg C U
2,4-Dichlorophenol	410.000	ug/kg C U	NA		400.000	ug/kg C U
2,4-Dimethylphenol	410.000	ug/kg C U	NA		400.000	ug/kg C U
2,4-Dinitrophenol	2000.000	ug/kg C U	NA		970.000	ug/kg C U
2,4-Dinitrotoluene	410.000	ug/kg C U	NA		400.000	ug/kg C U
2,6-Dinitrotoluene	410.000	ug/kg C U	NA		400.000	ug/kg C U
2-Benzyl-4-chlorophenol	410.000	ug/kg C U	NA		NA	
2-Chloronaphthalene	410.000	ug/kg C U	NA		400.000	ug/kg C U
2-Chlorophenol	410.000	ug/kg C U	NA		400.000	ug/kg C U
2-Methylnaphthalene	410.000	ug/kg C U	NA		400.000	ug/kg C U
2-Methylphenol	410.000	ug/kg C U	NA		400.000	ug/kg C U
2-Nitroaniline	1000.000	ug/kg C U	NA		970.000	ug/kg C U
2-Nitrophenol	410.000	ug/kg C U	NA		400.000	ug/kg C U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1963	1963	LSP-SS-03
SAMPLE NUMBER	114874	114879	114469
SAMPLING DATE	17-18	18-18.5	0.5-1
RESULTS	UNITS	L	VQ
CHEMICAL PARAMETERS			
Semivolatile Organics			
3,3'-Dichlorobenzidine	410.000	ug/kg	C UJ
3-Nitroaniline	1000.000	ug/kg	C U
4,6-Dinitro-2-methylphenol	1000.000	ug/kg	C U
4-Bromophenyl phenyl ether	410.000	ug/kg	C U
4-Chloro-3-methylphenol	410.000	ug/kg	C U
4-Chlorophenylphenyl ether	410.000	ug/kg	C U
4-Methylphenol	410.000	ug/kg	C U
4-Nitroaniline	1000.000	ug/kg	C UJ
4-Nitrophenol	1000.000	ug/kg	C U
Acenaphthene	410.000	ug/kg	C U
Acenaphthylene	410.000	ug/kg	C U
Anthracene	410.000	ug/kg	C U
Benzo(a)anthracene	410.000	ug/kg	C UJ
Benzo(a)pyrene	410.000	ug/kg	C UJ
Benzo(b)fluoranthene	410.000	ug/kg	C UJ
Benzo(g,h,i)perylene	410.000	ug/kg	C UJ
Benzo(k)fluoranthene	410.000	ug/kg	C UJ
Benzoic acid	90.000	ug/kg	C J
Benzyl alcohol	410.000	ug/kg	C R
Butyl benzyl phthalate	410.000	ug/kg	C UJ
Carbazole	410.000	ug/kg	C U
Chrysene	410.000	ug/kg	C UJ
Di-n-butyl phthalate	410.000	ug/kg	C UJ
Di-n-octyl phthalate	410.000	ug/kg	C UJ
Dibenzo(a,h)anthracene	410.000	ug/kg	C UJ
Dibenzofuran	410.000	ug/kg	C U
Diethyl phthalate	410.000	ug/kg	C U
Dimethyl phthalate	410.000	ug/kg	C U
Fluoranthene	410.000	ug/kg	C U
Fluorene	410.000	ug/kg	C U
Hexachlorobenzene	410.000	ug/kg	C U
Hexachlorobutadiene	410.000	ug/kg	C UJ
Hexachlorocyclopentadiene	410.000	ug/kg	C U
Hexachloroethane	410.000	ug/kg	C U
Indeno(1,2,3-cd)pyrene	410.000	ug/kg	C UJ
Isophorone	410.000	ug/kg	C U
N-Nitroso-di-n-propylamine	410.000	ug/kg	C UJ
N-Nitrosodimethylamine	410.000	ug/kg	C UJ
N-Nitrosodiphenylamine	410.000	ug/kg	C U
Naphthalene	410.000	ug/kg	C U
Nitrobenzene	410.000	ug/kg	C U
Pentachlorophenol	1000.000	ug/kg	C U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1963	1963	LSP-SS-03	
SAMPLE NUMBER	114874	114879	114469	
SAMPLING DATE	17-18 06/11/93	18-18.5 06/14/93	0.5-1 05/01/93	
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS	
<u>Semivolatile Organics</u>				
Phenanthrene	410.000	ug/kg C U	NA	
Phenol	410.000	ug/kg C U	NA	
Pyrene	410.000	ug/kg C U	NA	
Tributyl phosphate	410.000	ug/kg C U	NA	
bis(2-Chloroethoxy)methane	410.000	ug/kg C U	NA	
bis(2-Chloroethyl)ether	410.000	ug/kg C U	NA	
bis(2-Chloroisopropyl) ether	410.000	ug/kg C U	NA	
bis(2-Ethylhexyl) phthalate	93.000	ug/kg C U	NA	
p-Chloroaniline	410.000	ug/kg C U	NA	
<u>Pesticide Organics/PCBs</u>				
4,4'-DDD	4.100	ug/kg C U	NA	
4,4'-DDE	4.100	ug/kg C U	NA	
4,4'-DDT	4.100	ug/kg C U	NA	
Aldrin	2.100	ug/kg C U	NA	
Aroclor-1016	41.000	ug/kg C U	NA	
Aroclor-1221	83.000	ug/kg C U	NA	
Aroclor-1232	41.000	ug/kg C U	NA	
Aroclor-1242	41.000	ug/kg C U	NA	
Aroclor-1248	41.000	ug/kg C U	NA	
Aroclor-1254	41.000	ug/kg C U	NA	
Aroclor-1260	41.000	ug/kg C U	NA	
Dieldrin	4.100	ug/kg C U	NA	
Endosulfan II	4.100	ug/kg C U	NA	
Endosulfan sulfate	4.100	ug/kg C U	NA	
Endosulfan-I	2.100	ug/kg C U	NA	
Endrin	4.100	ug/kg C U	NA	
Endrin aldehyde	4.100	ug/kg C U	NA	
Endrin ketone	4.100	ug/kg C U	NA	
Heptachlor	2.100	ug/kg C U	NA	
Heptachlor epoxide	2.100	ug/kg C U	NA	
Methoxychlor	21.000	ug/kg C U	NA	
Toxaphene	210.000	ug/kg C U	NA	
alpha-BHC	2.100	ug/kg C U	NA	
alpha-Chlordane	2.100	ug/kg C U	NA	
beta-BHC	2.100	ug/kg C U	NA	
delta-BHC	2.100	ug/kg C U	NA	
gamma-BHC (Lindane)	2.100	ug/kg C U	NA	
gamma-Chlordane	2.100	ug/kg C U	NA	

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TABLE D-6A
(Continued)

PHASE II.- CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-04	LSP-SS-07	LSP-SS-08			
SAMPLE NUMBER	114476	114479	114490			
SAMPLING DATE	0.5-1 05/02/93	0.5-1 05/02/93	0.5-1 05/03/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Inorganics						
Aluminum	14300.000	mg/kg C - UJ	9870.000	mg/kg D - R	13000.000	mg/kg C - UJ
Antimony	0.330	mg/kg C - UJ	0.290	mg/kg D - R	0.280	mg/kg C - UJ
Arsenic	7.900	mg/kg C - UJ	8.700	mg/kg D - R	7.800	mg/kg C - UJ
Barium	114.000	mg/kg C - UJ	91.400	mg/kg D - R	125.000	mg/kg C - UJ
Beryllium	1.600	mg/kg C - UJ	1.500	mg/kg D - R	2.100	mg/kg C - UJ
Cadmium	1.500	mg/kg C - UJ	0.920	mg/kg D - R	1.100	mg/kg C - UJ
Calcium	36700.000	mg/kg C - UJ	56700.000	mg/kg D - R	11400.000	mg/kg C - UJ
Chromium	18.900	mg/kg C - UJ	13.400	mg/kg D - R	17.900	mg/kg C - UJ
Cobalt	9.900	mg/kg C - UJ	11.800	mg/kg D - R	11.900	mg/kg C - UJ
Copper	21.300	mg/kg C - UJ	19.400	mg/kg D - R	24.000	mg/kg C - UJ
Cyanide	0.120	mg/kg C - UJ	0.120	mg/kg D - R	0.120	mg/kg C - UJ
Iron	25300.000	mg/kg C - UJ	19500.000	mg/kg D - R	25500.000	mg/kg C - UJ
Lead	12.300	mg/kg C - UJ	16.600	mg/kg D - R	13.600	mg/kg C - UJ
Magnesium	12500.000	mg/kg C - UJ	13900.000	mg/kg D - R	6120.000	mg/kg C - UJ
Manganese	610.000	mg/kg C - UJ	710.000	mg/kg D - R	687.000	mg/kg C - UJ
Mercury	0.110	mg/kg C - UJ	0.120	mg/kg D - R	0.120	mg/kg C - UJ
Molybdenum	1.300	mg/kg C - UJ	1.400	mg/kg D - R	1.500	mg/kg C - UJ
Nickel	27.500	mg/kg C - UJ	20.600	mg/kg D - R	32.900	mg/kg C - UJ
Potassium	1270.000	mg/kg C - UJ	880.000	mg/kg D - R	739.000	mg/kg C - UJ
Selenium	0.230	mg/kg C - UJ	0.240	mg/kg D - R	0.230	mg/kg C - UJ
Silicon	974.000	mg/kg C - UJ	844.000	mg/kg D - R	891.000	mg/kg C - UJ
Silver	0.470	mg/kg C - UJ	0.480	mg/kg D - R	0.470	mg/kg C - UJ
Sodium	129.000	mg/kg C - UJ	121.000	mg/kg D - R	76.800	mg/kg C - UJ
Thallium	0.230	mg/kg C - UJ	0.240	mg/kg D - R	0.230	mg/kg C - UJ
Vanadium	29.400	mg/kg C - UJ	25.900	mg/kg D - R	26.200	mg/kg C - UJ
Zinc	60.400	mg/kg C - UJ	51.500	mg/kg D - R	62.700	mg/kg C - UJ
Volatile Organics						
1,1,1-Trichloroethane	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
1,1,2,2-Tetrachloroethane	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
1,1,2-Trichloroethane	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
1,1-Dichloroethane	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
1,1-Dichloroethene	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
1,2-Dichloroethane	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
1,2-Dichloroethene	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
1,2-Dichloropropane	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
2-Butanone	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
2-Hexanone	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
4-Methyl-2-pentanone	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
Acetone	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U
Benzene	12.000	ug/kg C - U	12.000	ug/kg D - U	12.000	ug/kg C - U

TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-04				LSP-SS-07				LSP-SS-08			
SAMPLE NUMBER	114476				114479				114490			
SAMPLING DATE	0.5-1				0.5-1				0.5-1			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Bromoform	12.000	ug/kg	C	UJ	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	C	UJ	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Carbon Tetrachloride	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Carbon disulfide	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Chlorobenzene	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	C	UJ	12.000	ug/kg	D	U	12.000	ug/kg	C	UJ
Chloroform	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Dibromochloromethane	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Ethylbenzene	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Methylene chloride	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Styrene	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Tetrachloroethene	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Toluene	2.000	ug/kg	C	UJ	2.000	ug/kg	D	U	11.000	ug/kg	C	UJ
Trichloroethene	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Vinyl chloride	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
Xylenes, Total	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	12.000	ug/kg	C	U	12.000	ug/kg	D	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	400.000	ug/kg	C	UJ	400.000	ug/kg	D	U	400.000	ug/kg	C	UJ
1,2-Dichlorobenzene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
1,3-Dichlorobenzene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
1,4-Dichlorobenzene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
2,4,5-Trichloropheno	970.000	ug/kg	C	U	970.000	ug/kg	D	U	960.000	ug/kg	C	U
2,4,6-Trichloropheno	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
2,4-Dichloropheno	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
2,4-Dimethylphenol	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
2,4-Dinitrophenol	970.000	ug/kg	C	UJ	970.000	ug/kg	D	U	960.000	ug/kg	C	UJ
2,4-Dinitrotoluene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
2,6-Dinitrotoluene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
2-Chloronaphthalene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
2-Chloropheno	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
2-Methylnaphthalene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
2-Methylphenol	400.000	ug/kg	C	UJ	400.000	ug/kg	D	U	400.000	ug/kg	C	UJ
2-Nitroaniline	970.000	ug/kg	C	U	970.000	ug/kg	D	U	960.000	ug/kg	C	U
2-Nitropheno	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
3,3'-Dichlorobenzidine	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
3-Nitroaniline	970.000	ug/kg	C	UJ	970.000	ug/kg	D	U	960.000	ug/kg	C	UJ

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-04				LSP-SS-07				LSP-SS-08			
SAMPLE NUMBER	114476				114479				114490			
SAMPLING DATE	0.5-1 05/02/93				0.5-1 05/02/93				0.5-1 05/03/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
4,6-Dinitro-2-methylphenol	970.000	ug/kg	C	U	970.000	ug/kg	D	U	960.000	ug/kg	C	U
4-Bromophenyl phenyl ether	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
4-Chloro-3-methylphenol	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
4-Chlorophenylphenyl ether	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
4-Methylphenol	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
4-Nitroaniline	970.000	ug/kg	C	R	970.000	ug/kg	D	U	960.000	ug/kg	C	U
4-Nitrophenol	970.000	ug/kg	C	U	970.000	ug/kg	D	U	960.000	ug/kg	C	U
Acenaphthene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Acenaphthylene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Anthracene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Benzo(a)anthracene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Benzo(a)pyrene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Benzo(b)fluoranthene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Benzo(g,h,i)perylene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Benzo(k)fluoranthene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Benzoic acid	1900.000	ug/kg	C	U	1900.000	ug/kg	D	U	1900.000	ug/kg	C	U
Benzyl alcohol	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Butyl benzyl phthalate	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Carbazole	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Chrysene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Di-n-butyl phthalate	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Di-n-octyl phthalate	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Dibenzo(a,h)anthracene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Dibenzofuran	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Diethyl phthalate	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Dimethyl phthalate	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Fluoranthene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Fluorene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Hexachlorobenzene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Hexachlorobutadiene	400.000	ug/kg	C	R	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Hexachlorocyclopentadiene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Hexachloroethane	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Isophorone	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
N-Nitrosodiphenylamine	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Naphthalene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Nitrobenzene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Pentachlorophenol	970.000	ug/kg	C	U	970.000	ug/kg	D	U	960.000	ug/kg	C	U
Phenanthrene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Phenol	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
Pyrene	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-04				LSP-SS-07				LSP-SS-08			
SAMPLE NUMBER	114476				114479				114490			
SAMPLING DATE	0.5-1				0.5-1				0.5-1			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
bis(2-Chloroethoxy)methane	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
bis(2-Chloroethyl)ether	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	580.000	ug/kg	C	U	4800.000	ug/kg	D	U	230.000	ug/kg	C	U
p-Chloroaniline	400.000	ug/kg	C	U	400.000	ug/kg	D	U	400.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	4.000	ug/kg	C	U	4.000	ug/kg	D	U	3.900	ug/kg	C	U
4,4'-DDE	4.000	ug/kg	C	U	4.000	ug/kg	D	U	3.900	ug/kg	C	U
4,4'-DDT	4.000	ug/kg	C	U	4.000	ug/kg	D	U	3.900	ug/kg	C	U
Aldrin	2.100	ug/kg	C	U	2.100	ug/kg	D	U	2.000	ug/kg	C	U
Aroclor-1016	40.000	ug/kg	C	U	40.000	ug/kg	D	U	39.000	ug/kg	C	U
Aroclor-1221	82.000	ug/kg	C	U	82.000	ug/kg	D	U	80.000	ug/kg	C	U
Aroclor-1232	40.000	ug/kg	C	U	40.000	ug/kg	D	U	39.000	ug/kg	C	U
Aroclor-1242	40.000	ug/kg	C	U	40.000	ug/kg	D	U	39.000	ug/kg	C	U
Aroclor-1248	40.000	ug/kg	C	U	40.000	ug/kg	D	U	39.000	ug/kg	C	U
Aroclor-1254	40.000	ug/kg	C	U	40.000	ug/kg	D	U	39.000	ug/kg	C	U
Aroclor-1260	40.000	ug/kg	C	U	40.000	ug/kg	D	U	39.000	ug/kg	C	U
Dieldrin	4.000	ug/kg	C	U	4.000	ug/kg	D	U	3.900	ug/kg	C	U
Endosulfan II	4.000	ug/kg	C	U	4.000	ug/kg	D	U	3.900	ug/kg	C	U
Endosulfan sulfate	4.000	ug/kg	C	U	4.000	ug/kg	D	U	2.000	ug/kg	C	U
Endosulfan-I	2.100	ug/kg	C	U	2.100	ug/kg	D	U	3.900	ug/kg	C	U
Endrin	4.000	ug/kg	C	U	4.000	ug/kg	D	U	3.900	ug/kg	C	U
Endrin aldehyde	4.000	ug/kg	C	U	4.000	ug/kg	D	U	3.900	ug/kg	C	U
Endrin ketone	4.000	ug/kg	C	U	4.000	ug/kg	D	U	3.900	ug/kg	C	U
Heptachlor	4.000	ug/kg	C	U	4.000	ug/kg	D	U	3.900	ug/kg	C	U
Heptachlor epoxide	2.100	ug/kg	C	U	2.100	ug/kg	D	U	2.000	ug/kg	C	U
Methoxychlor	21.000	ug/kg	C	U	21.000	ug/kg	D	U	20.000	ug/kg	C	U
Toxaphene	210.000	ug/kg	C	U	210.000	ug/kg	D	U	200.000	ug/kg	C	U
alpha-BHC	2.100	ug/kg	C	U	2.100	ug/kg	D	U	2.000	ug/kg	C	U
alpha-Chlordane	2.100	ug/kg	C	U	2.100	ug/kg	D	U	2.000	ug/kg	C	U
beta-BHC	2.100	ug/kg	C	U	2.100	ug/kg	D	U	2.000	ug/kg	C	U
delta-BHC	2.100	ug/kg	C	U	2.100	ug/kg	D	U	2.000	ug/kg	C	U
gamma-BHC (Lindane)	2.100	ug/kg	C	U	2.100	ug/kg	D	U	2.000	ug/kg	C	U
gamma-Chlordane	2.100	ug/kg	C	U	2.100	ug/kg	D	U	2.000	ug/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-11	LSP-SS-12	LSP-SB-02			
SAMPLE NUMBER	114500	114503	114508			
SAMPLING DATE	0.5-1 05/04/93	0.5-1 05/04/93	0.5-1 05/05/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	12200.000	mg/kg C -UJ	11900.000	mg/kg C -UJ	17600.000	mg/kg C -UJ
Antimony	0.870	mg/kg C C-UJ	0.670	mg/kg C C-UJ	0.830	mg/kg C C-UJ
Arsenic	6.600	mg/kg C C-UJ	5.100	mg/kg C C-UJ	8.100	mg/kg C C-UJ
Barium	84.900	mg/kg C C-UJ	84.200	mg/kg C C-UJ	129.000	mg/kg C C-UJ
Beryllium	1.600	mg/kg C C-UJ	1.800	mg/kg C C-UJ	1.800	mg/kg C C-UJ
Cadmium	1.000	mg/kg C C-UJ	1.300	mg/kg C C-UJ	1.600	mg/kg C C-UJ
Calcium	73400.000	mg/kg C C-UJ	90200.000	mg/kg C C-UJ	22900.000	mg/kg C C-UJ
Chromium	15.800	mg/kg C C-UJ	14.700	mg/kg C C-UJ	22.100	mg/kg C C-UJ
Cobalt	9.200	mg/kg C C-UJ	8.000	mg/kg C C-UJ	12.900	mg/kg C C-UJ
Copper	21.400	mg/kg C C-UJ R	17.400	mg/kg C C-UJ R	24.500	mg/kg C C-UJ R
Cyanide	0.120	mg/kg C C-UJ	0.120	mg/kg C C-UJ	0.120	mg/kg C C-UJ
Iron	20400.000	mg/kg C C-UJ	17600.000	mg/kg C C-UJ	27900.000	mg/kg C C-UJ
Lead	14.500	mg/kg C C-UJ	11.200	mg/kg C C-UJ	14.700	mg/kg C C-UJ
Magnesium	20200.000	mg/kg C C-UJ	26000.000	mg/kg C C-UJ	9450.000	mg/kg C C-UJ
Manganese	576.000	mg/kg C C-UJ	571.000	mg/kg C C-UJ	705.000	mg/kg C C-UJ
Mercury	0.120	mg/kg C C-UJ	0.120	mg/kg C C-UJ	0.120	mg/kg C C-UJ
Molybdenum	1.100	mg/kg C C-UJ	0.740	mg/kg C C-UJ	1.200	mg/kg C C-UJ
Nickel	20.500	mg/kg C C-UJ	16.900	mg/kg C C-UJ	32.200	mg/kg C C-UJ
Potassium	1590.000	mg/kg C C-UJ	1680.000	mg/kg C C-UJ	1900.000	mg/kg C C-UJ
Selenium	0.230	mg/kg C C-UJ	0.230	mg/kg C C-UJ	0.240	mg/kg C C-UJ
Silicon	1010.000	mg/kg C C-UJ	760.000	mg/kg C C-UJ	994.000	mg/kg C C-UJ
Silver	0.470	mg/kg C C-UJ	0.460	mg/kg C C-UJ	0.490	mg/kg C C-UJ
Sodium	198.000	mg/kg C C-UJ	178.000	mg/kg C C-UJ	117.000	mg/kg C C-UJ
Thallium	0.230	mg/kg C C-UJ	0.230	mg/kg C C-UJ	0.240	mg/kg C C-UJ
Vanadium	27.500	mg/kg C C-UJ	27.000	mg/kg C C-UJ	35.200	mg/kg C C-UJ
Zinc	55.100	mg/kg C C-UJ	55.000	mg/kg C C-UJ	66.200	mg/kg C C-UJ
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
1,1,2,2-Tetrachloroethane	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
1,1,2-Trichloroethane	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
1,1-Dichloroethane	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
1,1-Dichloroethene	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
1,2-Dichloroethane	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
1,2-Dichloroethene	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
1,2-Dichloropropane	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
2-Butanone	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
2-Hexanone	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
4-Methyl-2-pentanone	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
Acetone	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ
Benzene	12.000	ug/kg C C-UJ	11.000	ug/kg C C-UJ	12.000	ug/kg C C-UJ

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-11				LSP-SS-12				LSP-SB-02			
SAMPLE NUMBER	114500				114503				114508			
SAMPLING DATE	0.5-1				0.5-1				0.5-1			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Tetrachloride	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Disulfide	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	12.000	ug/kg	C	U	16.000	ug/kg	C	U	12.000	ug/kg	C	U
Styrene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Trichloroethene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl Acetate	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
1,2-Dichlorobenzene	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
1,3-Dichlorobenzene	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
1,4-Dichlorobenzene	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4,5-Trichlorophenol	970.000	ug/kg	C	U	950.000	ug/kg	C	U	960.000	ug/kg	C	U
2,4,6-Trichlorophenol	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4-Dichlorophenol	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4-Dimethylphenol	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4-Dinitrophenol	970.000	ug/kg	C	R	950.000	ug/kg	C	R	960.000	ug/kg	C	R
2,4-Dinitrotoluene	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	R
2,6-Dinitrotoluene	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	R
2-Benzyl-4-chlorophenol	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Chloronaphthalene	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Chlorophenol	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Methylnaphthalene	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Methylphenol	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Nitroaniline	970.000	ug/kg	C	U	950.000	ug/kg	C	U	960.000	ug/kg	C	U
2-Nitrophenol	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-11				LSP-SS-12				LSP-SB-02			
SAMPLE NUMBER	114500				114503				114508			
SAMPLING DATE	0.5-1				0.5-1				0.5-1			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	400.000	ug/kg	C	U	390.000	ug/kg	C	U	390.000	ug/kg	C	U
3-Nitroaniline	970.000	ug/kg	C	UJ	950.000	ug/kg	C	U	960.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	970.000	ug/kg	C	R	950.000	ug/kg	C	R	960.000	ug/kg	C	R
4-Bromophenyl phenyl ether	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Chloro-3-methylphenol	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Chlorophenylphenyl ether	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Methylphenol	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Nitroaniline	970.000	ug/kg	C	UJ	950.000	ug/kg	C	U	960.000	ug/kg	C	U
4-Nitrophenol	970.000	ug/kg	C	R	950.000	ug/kg	C	R	960.000	ug/kg	C	R
Acenaphthene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
Acenaphthylene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
Anthracene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzo(a)anthracene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzo(a)pyrene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzo(b)fluoranthene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzo(g,h,i)perylene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzo(k)fluoranthene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzoic acid	1900.000	ug/kg	C	R	1900.000	ug/kg	C	R	1900.000	ug/kg	C	R
Benzyl alcohol	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Butyl benzyl phthalate	400.000	ug/kg	C	R	390.000	ug/kg	C	R	390.000	ug/kg	C	R
Carbazole	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Chrysene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Di-n-butyl phthalate	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Di-n-octyl phthalate	400.000	ug/kg	C	R	390.000	ug/kg	C	R	390.000	ug/kg	C	R
Dibenzo(a,h)anthracene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Dibenzofuran	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Diethyl phthalate	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Dimethyl phthalate	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Fluoranthene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Fluorene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Hexachlorobenzene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Hexachlorobutadiene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Hexachlorocyclopentadiene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Hexachloroethane	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Indeno(1,2,3-cd)pyrene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Isophorone	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
N-Nitroso-di-n-propylamine	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
N-Nitrosodiphenylamine	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Naphthalene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Nitrobenzene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
Pentachlorophenol	970.000	ug/kg	C	UJ	950.000	ug/kg	C	UJ	960.000	ug/kg	C	UJ
Phenanthrene	400.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ

TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SS-11	LSP-SS-12	LSP-SB-02			
SAMPLE NUMBER	114500	114503	114508			
SAMPLING DATE	0.5-1 05/04/93	0.5-1 05/04/93	0.5-1 05/05/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Semivolatile Organics</u>						
Phenol	400.000	ug/kg C U	390.000	ug/kg C U	390.000	ug/kg C U
Pyrene	400.000	ug/kg C U	390.000	ug/kg C U	51.000	ug/kg C U
bis(2-Chloroethoxy)methane	400.000	ug/kg C U	390.000	ug/kg C U	390.000	ug/kg C U
bis(2-Chloroethyl)ether	400.000	ug/kg C U	390.000	ug/kg C U	390.000	ug/kg C U
bis(2-Chloroisopropyl) ether	400.000	ug/kg C U	390.000	ug/kg C U	390.000	ug/kg C U
bis(2-Ethylhexyl) phthalate	400.000	ug/kg C U	390.000	ug/kg C U	390.000	ug/kg C U
p-Chloroaniline	400.000	ug/kg C U	390.000	ug/kg C U	390.000	ug/kg C U
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	4.000	ug/kg C U	3.800	ug/kg C U	4.000	ug/kg C U
4,4'-DDE	4.000	ug/kg C U	3.800	ug/kg C U	4.000	ug/kg C U
4,4'-DDT	4.000	ug/kg C U	3.800	ug/kg C U	4.000	ug/kg C U
Aldrin	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
Aroclor-1016	40.000	ug/kg C U	38.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1221	80.000	ug/kg C U	78.000	ug/kg C U	81.000	ug/kg C U
Aroclor-1232	40.000	ug/kg C U	38.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1242	40.000	ug/kg C U	38.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1248	40.000	ug/kg C U	38.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1254	40.000	ug/kg C U	38.000	ug/kg C U	40.000	ug/kg C U
Aroclor-1260	40.000	ug/kg C U	38.000	ug/kg C U	40.000	ug/kg C U
Dieldrin	4.000	ug/kg C U	3.800	ug/kg C U	4.000	ug/kg C U
Endosulfan II	4.000	ug/kg C U	3.800	ug/kg C U	4.000	ug/kg C U
Endosulfan sulfate	4.000	ug/kg C U	3.800	ug/kg C U	4.000	ug/kg C U
Endosulfan-I	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
Endrin	4.000	ug/kg C U	3.800	ug/kg C U	4.000	ug/kg C U
Endrin aldehyde	4.000	ug/kg C U	3.800	ug/kg C U	4.000	ug/kg C U
Endrin ketone	4.000	ug/kg C U	3.800	ug/kg C U	4.000	ug/kg C U
Heptachlor	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
Heptachlor epoxide	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
Methoxychlor	20.000	ug/kg C U	20.000	ug/kg C U	20.000	ug/kg C U
Toxaphene	200.000	ug/kg C U	200.000	ug/kg C U	200.000	ug/kg C U
alpha-BHC	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
alpha-Chlordane	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
beta-BHC	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
delta-BHC	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
gamma-BHC (Lindane)	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U
gamma-Chlordane	2.000	ug/kg C U	2.000	ug/kg C U	2.000	ug/kg C U

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February 18, 1994

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-03	LSP-SB-01	LSP-SB-04			
SAMPLE NUMBER	114510	114564	114570			
SAMPLING DATE	0.5-1 05/05/93	0.5-1 05/05/93	0.5-1 05/06/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Inorganics</u>						
Aluminum	18000.000	mg/kg C - UJ	8530.000	mg/kg C -	13700.000	mg/kg C - UJ
Antimony	0.690	mg/kg C -	0.230	mg/kg C -	0.410	mg/kg C - UJ
Arsenic	8.800	mg/kg C -	5.800	mg/kg C -	7.200	mg/kg C -
Barium	123.000	mg/kg C -	55.400	mg/kg C -	98.300	mg/kg C -
Beryllium	1.800	mg/kg C -	0.400	mg/kg C -	0.880	mg/kg C -
Cadmium	1.300	mg/kg C -	0.650	mg/kg C -	1.100	mg/kg C -
Calcium	28200.000	mg/kg C -	75100.000	mg/kg C -	24100.000	mg/kg C -
Chromium	20.900	mg/kg C -	10.800	mg/kg C -	17.200	mg/kg C -
Cobalt	14.200	mg/kg C -	7.500	mg/kg C -	8.900	mg/kg C -
Copper	20.400	mg/kg C -	15.700	mg/kg C -	31.900	mg/kg C -
Cyanide	0.120	mg/kg C - R	0.120	mg/kg C -	0.120	mg/kg C -
Iron	24900.000	mg/kg C -	16900.000	mg/kg C -	22000.000	mg/kg C -
Lead	18.000	mg/kg C -	11.600	mg/kg C -	12.200	mg/kg C -
Magnesium	11200.000	mg/kg C -	23600.000	mg/kg C -	9510.000	mg/kg C -
Manganese	974.000	mg/kg C -	448.000	mg/kg C -	479.000	mg/kg C -
Mercury	0.120	mg/kg C -	0.110	mg/kg C -	0.110	mg/kg C -
Molybdenum	1.800	mg/kg C -	1.500	mg/kg C -	1.700	mg/kg C -
Nickel	28.300	mg/kg C -	17.300	mg/kg C -	19.200	mg/kg C -
Potassium	1870.000	mg/kg C -	1360.000	mg/kg C -	1190.000	mg/kg C -
Selenium	0.240	mg/kg C -	0.220	mg/kg C -	0.240	mg/kg C - UJ
Silicon	811.000	mg/kg C -	699.000	mg/kg C -	584.000	mg/kg C -
Silver	0.480	mg/kg C -	0.460	mg/kg C -	0.480	mg/kg C -
Sodium	128.000	mg/kg C -	263.000	mg/kg C -	93.100	mg/kg C -
Thallium	0.240	mg/kg C -	0.220	mg/kg C -	0.240	mg/kg C -
Vanadium	37.500	mg/kg C -	19.500	mg/kg C -	28.600	mg/kg C -
Zinc	59.100	mg/kg C -	47.100	mg/kg C -	53.000	mg/kg C -
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	12.000	ug/kg C U	12.000	ug/kg C C	12.000	ug/kg C U
1,1,2,2-Tetrachloroethane	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
1,1,2-Trichloroethane	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
1,1-Dichloroethane	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
1,1-Dichloroethene	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
1,2-Dichloroethane	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
1,2-Dichloroethene	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
1,2-Dichloropropane	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
2-Butanone	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
2-Hexanone	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
4-Methyl-2-pentanone	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
Acetone	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C
Benzene	12.000	ug/kg C UU	12.000	ug/kg C C	12.000	ug/kg C C

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-03				LSP-SB-01				LSP-SB-04			
SAMPLE NUMBER	114510				114564				114570			
SAMPLING DATE	05/05/93				05/05/93				05/06/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Tetrachloride	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon disulfide	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	12.000	ug/kg	C	U	18.000	ug/kg	C	U	12.000	ug/kg	C	U
Styrene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Trichloroethene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl Acetate	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	12.000	ug/kg	C	U	12.000	ug/kg	C	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
1,2-Dichlorobenzene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
1,3-Dichlorobenzene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
1,4-Dichlorobenzene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4,5-Trichlorophenol	970.000	ug/kg	C	U	1000.000	ug/kg	C	U	950.000	ug/kg	C	U
2,4,6-Trichlorophenol	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4-Dichlorophenol	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4-Dimethylphenol	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2,4-Dinitrophenol	970.000	ug/kg	C	R	1000.000	ug/kg	C	U	950.000	ug/kg	C	U
2,4-Dinitrotoluene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2,6-Dinitrotoluene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Benzyl-4-chlorophenol	400.000	ug/kg	C	U	NA							
2-Chloronaphthalene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Chlorophenol	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Methylnaphthalene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Methylphenol	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
2-Nitroaniline	970.000	ug/kg	C	U	1000.000	ug/kg	C	U	950.000	ug/kg	C	U
2-Nitrophenol	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-03				LSP-SB-01				LSP-SB-04			
SAMPLE NUMBER	114510				114564				114570			
SAMPLING DATE	0.5-1				0.5-1				0.5-1			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	400.000	ug/kg	C	U	410.000	ug/kg	C	UJ	390.000	ug/kg	C	UJ
3-Nitroaniline	970.000	ug/kg	C	R	1000.000	ug/kg	C	UJ	950.000	ug/kg	C	UJ
4,6-Dinitro-2-methylphenol	970.000	ug/kg	C	U	1000.000	ug/kg	C	UJ	950.000	ug/kg	C	U
4-Bromophenyl phenyl ether	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Chloro-3-methylphenol	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Chlorophenylphenyl ether	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Methylphenol	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
4-Nitroaniline	970.000	ug/kg	C	R	1000.000	ug/kg	C	UJ	950.000	ug/kg	C	UJ
4-Nitrophenol	970.000	ug/kg	C	R	1000.000	ug/kg	C	U	950.000	ug/kg	C	U
Acenaphthene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Acenaphthylene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Anthracene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzo(a)anthracene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzo(a)pyrene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzo(b)fluoranthene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzo(g,h,i)perylene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzo(k)fluoranthene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Benzoic acid	1900.000	ug/kg	C	R	NA				NA			
Benzyl alcohol	400.000	ug/kg	C	UJ	NA				NA			
Butyl benzyl phthalate	400.000	ug/kg	C	R	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Carbazole	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Chrysene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Di-n-butyl phthalate	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Di-n-octyl phthalate	400.000	ug/kg	C	R	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Dibenzo(a,h)anthracene	400.000	ug/kg	C	UJ	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Dibenzofuran	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Diethyl phthalate	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Dimethyl phthalate	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Fluoranthene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Fluorene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Hexachlorobenzene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Hexachlorobutadiene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Hexachlorocyclopentadiene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Hexachloroethane	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Isophorone	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
N-Nitrosodiphenylamine	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Naphthalene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Nitrobenzene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Pentachlorophenol	970.000	ug/kg	C	U	1000.000	ug/kg	C	U	950.000	ug/kg	C	U
Phenanthrene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-03				LSP-SB-01				LSP-SB-04			
SAMPLE NUMBER	114510				114564				114570			
SAMPLING DATE	0.5-1				0.5-1				0.5-1			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Phenol	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
Pyrene	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
bis(2-Chloroethoxy)methane	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
bis(2-Chloroethyl)ether	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	400.000	ug/kg	C	U	360.000	ug/kg	C	U	390.000	ug/kg	C	U
p-Chloroaniline	400.000	ug/kg	C	U	410.000	ug/kg	C	U	390.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	4.100	ug/kg	C	U	4.100	ug/kg	C	U	4.500	ug/kg	C	U
4,4'-DDE	4.100	ug/kg	C	U	4.100	ug/kg	C	U	4.500	ug/kg	C	U
4,4'-DDT	4.100	ug/kg	C	U	4.100	ug/kg	C	U	4.500	ug/kg	C	U
Aldrin	2.100	ug/kg	C	U	2.100	ug/kg	C	U	2.300	ug/kg	C	U
Aroclor-1016	41.000	ug/kg	C	U	41.000	ug/kg	C	U	45.000	ug/kg	C	U
Aroclor-1221	82.000	ug/kg	C	U	83.000	ug/kg	C	U	91.000	ug/kg	C	U
Aroclor-1232	41.000	ug/kg	C	U	41.000	ug/kg	C	U	45.000	ug/kg	C	U
Aroclor-1242	41.000	ug/kg	C	U	41.000	ug/kg	C	U	45.000	ug/kg	C	U
Aroclor-1248	41.000	ug/kg	C	U	41.000	ug/kg	C	U	45.000	ug/kg	C	U
Aroclor-1254	41.000	ug/kg	C	U	41.000	ug/kg	C	U	45.000	ug/kg	C	U
Aroclor-1260	41.000	ug/kg	C	U	41.000	ug/kg	C	U	45.000	ug/kg	C	U
Dieldrin	4.100	ug/kg	C	U	4.100	ug/kg	C	U	4.500	ug/kg	C	U
Endosulfan II	4.100	ug/kg	C	U	4.100	ug/kg	C	U	4.500	ug/kg	C	U
Endosulfan sulfate	4.100	ug/kg	C	U	4.100	ug/kg	C	U	4.500	ug/kg	C	U
Endosulfan-I	2.100	ug/kg	C	U	2.100	ug/kg	C	U	2.300	ug/kg	C	U
Endrin	4.100	ug/kg	C	U	4.100	ug/kg	C	U	4.500	ug/kg	C	U
Endrin aldehyde	4.100	ug/kg	C	U	4.100	ug/kg	C	U	4.500	ug/kg	C	U
Endrin ketone	4.100	ug/kg	C	U	4.100	ug/kg	C	U	4.500	ug/kg	C	U
Heptachlor	2.100	ug/kg	C	U	2.100	ug/kg	C	U	2.300	ug/kg	C	U
Heptachlor epoxide	2.100	ug/kg	C	U	2.100	ug/kg	C	U	2.300	ug/kg	C	U
Methoxychlor	21.000	ug/kg	C	U	21.000	ug/kg	C	U	23.000	ug/kg	C	U
Toxaphene	210.000	ug/kg	C	U	210.000	ug/kg	C	U	230.000	ug/kg	C	U
alpha-BHC	2.100	ug/kg	C	U	2.100	ug/kg	C	U	2.300	ug/kg	C	U
alpha-Chlordane	2.100	ug/kg	C	U	2.100	ug/kg	C	U	2.300	ug/kg	C	U
beta-BHC	2.100	ug/kg	C	U	2.100	ug/kg	C	U	2.300	ug/kg	C	U
delta-BHC	2.100	ug/kg	C	U	2.100	ug/kg	C	U	2.300	ug/kg	C	U
gamma-BHC (Lindane)	2.100	ug/kg	C	U	2.100	ug/kg	C	U	2.300	ug/kg	C	U
gamma-Chlordane	2.100	ug/kg	C	U	2.100	ug/kg	C	U	2.300	ug/kg	C	U

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-07	LSP-SB-05	LSP-SB-06
SAMPLE NUMBER	114576	114600	114602
SAMPLING DATE	0.5-1 05/06/93	0.5-1 05/10/93	0.5-1 05/10/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Inorganics</u>			
Aluminum	13700.000	mg/kg C	14300.000
Antimony	0.510	mg/kg C UJ	0.800
Arsenic	8.700	mg/kg C	7.200
Barium	93.700	mg/kg C	86.700
Beryllium	0.570	mg/kg C	0.790
Cadmium	1.000	mg/kg C	1.100
Calcium	11800.000	mg/kg C	71800.000
Chromium	18.100	mg/kg C	17.100
Cobalt	13.200	mg/kg C	8.400
Copper	24.300	mg/kg C	37.600
Cyanide	0.120	mg/kg C	0.110
Iron	23500.000	mg/kg C	20700.000
Lead	13.300	mg/kg C	12.200
Magnesium	6210.000	mg/kg C	18100.000
Manganese	530.000	mg/kg C	536.000
Mercury	0.110	mg/kg C	0.110
Molybdenum	2.100	mg/kg C	1.100
Nickel	20.100	mg/kg C	19.300
Potassium	1050.000	mg/kg C	2320.000
Selenium	0.290	mg/kg C	0.220
Silicon	1120.000	mg/kg C	1070.000
Silver	0.480	mg/kg C	0.450
Sodium	81.300	mg/kg C	152.000
Thallium	0.240	mg/kg C	0.330
Vanadium	29.600	mg/kg C	30.100
Zinc	53.300	mg/kg C	51.500
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	12.000	ug/kg C	11.000
1,1,2,2-Tetrachloroethane	12.000	ug/kg C	11.000
1,1,2-Trichloroethane	12.000	ug/kg C	11.000
1,1-Dichloroethane	12.000	ug/kg C	11.000
1,1-Dichloroethene	12.000	ug/kg C	11.000
1,2-Dichloroethane	12.000	ug/kg C	11.000
1,2-Dichloroethene	12.000	ug/kg C	11.000
2-Butanone	12.000	ug/kg C	11.000
2-Hexanone	12.000	ug/kg C	11.000
4-Methyl-2-pentanone	12.000	ug/kg C	11.000
Acetone	12.000	ug/kg C	11.000
Benzene	12.000	ug/kg C	11.000

TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-07				LSP-SB-05				LSP-SB-06			
SAMPLE NUMBER	114576				114600				114602			
SAMPLING DATE	0.5-1				0.5-1				0.5-1			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromoform	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Bromomethane	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon Tetrachloride	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Carbon disulfide	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Chlorobenzene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroethane	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloroform	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Chloromethane	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Dibromochloromethane	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Ethylbenzene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Methylene chloride	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Styrene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Tetrachloroethene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Toluene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Trichloroethene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl Acetate	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Vinyl chloride	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
Xylenes, Total	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
cis-1,3-Dichloropropene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
trans-1,3-Dichloropropene	12.000	ug/kg	C	U	11.000	ug/kg	C	U	12.000	ug/kg	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
1,2-Dichlorobenzene	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
1,3-Dichlorobenzene	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
1,4-Dichlorobenzene	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
2,4,5-Trichlorophenol	950.000	ug/kg	C	U	870.000	ug/kg	C	U	960.000	ug/kg	C	U
2,4,6-Trichlorophenol	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
2,4-Dichlorophenol	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
2,4-Dimethylphenol	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
2,4-Dinitrophenol	950.000	ug/kg	C	U	870.000	ug/kg	C	U	960.000	ug/kg	C	U
2,4-Dinitrotoluene	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
2,6-Dinitrotoluene	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
2-Chloronaphthalene	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
2-Chlorophenol	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
2-Methylnaphthalene	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
2-Methylphenol	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
2-Nitroaniline	950.000	ug/kg	C	U	870.000	ug/kg	C	U	960.000	ug/kg	C	U
2-Nitrophenol	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U
3,3'-Dichlorobenzidine	390.000	ug/kg	C	U	360.000	ug/kg	C	U	400.000	ug/kg	C	U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-07				LSP-SB-05				LSP-SB-06	
SAMPLE NUMBER	114576	RESULTS	UNITS	L	VQ	114600	RESULTS	UNITS	L	VQ
SAMPLING DATE	0.5-1					0.5-1				
CHEMICAL PARAMETERS										
<u>Semivolatile Organics</u>										
3-Nitroaniline	950.000	ug/kg	C	UJ		870.000	ug/kg	C	U	
4,6-Dinitro-2-methylphenol	950.000	ug/kg	C	UJ		870.000	ug/kg	C	U	
4-Bromophenyl phenyl ether	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
4-Chloro-3-methylphenol	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
4-Chlorophenylphenyl ether	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
4-Methylphenol	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
4-Nitroaniline	950.000	ug/kg	C	UJ		870.000	ug/kg	C	UJ	
4-Nitrophenol	950.000	ug/kg	C	UJ		870.000	ug/kg	C	U	
Acenaphthene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Acenaphthylene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Anthracene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Benzo(a)anthracene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Benzo(a)pyrene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Benzo(b)fluoranthene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Benzo(g,h,i)perylene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Benzo(k)fluoranthene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Butyl benzyl phthalate	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Carbazole	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Chrysene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Di-n-butyl phthalate	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Di-n-octyl phthalate	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Dibenzo(a,h)anthracene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Dibenzofuran	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Diethyl phthalate	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Dimethyl phthalate	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Fluoranthene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Fluorene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Hexachlorobenzene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Hexachlorobutadiene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Hexachlorocyclopentadiene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Hexachloroethane	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Indeno(1,2,3-cd)pyrene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Isophorone	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
N-Nitroso-di-n-propylamine	390.000	ug/kg	C	UJ		360.000	ug/kg	C	UJ	
N-Nitrosodiphenylamine	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Naphthalene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Nitrobenzene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Pentachlorophenol	950.000	ug/kg	C	UJ		870.000	ug/kg	C	U	
Phenanthrene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Phenol	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
Pyrene	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	
bis(2-Chloroethoxy)methane	390.000	ug/kg	C	UJ		360.000	ug/kg	C	U	

TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-07				LSP-SB-05				LSP-SB-06			
SAMPLE NUMBER	114576				114600				114602			
SAMPLING DATE	0.5-1				0.5-1				0.5-1			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
bis(2-Chloroethyl)ether	390.000	ug/kg	C	UJ	360.000	ug/kg	C	U	400.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	390.000	ug/kg	C	UJ	360.000	ug/kg	C	U	400.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	220.000	ug/kg	C	J	360.000	ug/kg	C	U	400.000	ug/kg	C	U
p-Chloroaniline	390.000	ug/kg	C	UJ	360.000	ug/kg	C	U	400.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	3.900	ug/kg	C	U	3.600	ug/kg	C	U	3.900	ug/kg	C	U
4,4'-DDE	3.900	ug/kg	C	UJ	3.600	ug/kg	C	UJ	3.900	ug/kg	C	UJ
4,4'-DDT	3.900	ug/kg	C	UJ	3.600	ug/kg	C	UJ	3.900	ug/kg	C	UJ
Aldrin	2.000	ug/kg	C	U	1.800	ug/kg	C	U	2.000	ug/kg	C	U
Aroclor-1016	39.000	ug/kg	C	U	36.000	ug/kg	C	U	39.000	ug/kg	C	U
Aroclor-1221	79.000	ug/kg	C	U	73.000	ug/kg	C	U	80.000	ug/kg	C	U
Aroclor-1232	39.000	ug/kg	C	U	36.000	ug/kg	C	U	39.000	ug/kg	C	U
Aroclor-1242	39.000	ug/kg	C	U	36.000	ug/kg	C	U	39.000	ug/kg	C	U
Aroclor-1248	39.000	ug/kg	C	U	36.000	ug/kg	C	U	39.000	ug/kg	C	U
Aroclor-1254	39.000	ug/kg	C	U	36.000	ug/kg	C	U	39.000	ug/kg	C	U
Aroclor-1260	39.000	ug/kg	C	U	36.000	ug/kg	C	U	39.000	ug/kg	C	U
Dieldrin	3.900	ug/kg	C	U	3.600	ug/kg	C	U	3.900	ug/kg	C	U
Endosulfan II	3.900	ug/kg	C	U	3.600	ug/kg	C	U	3.900	ug/kg	C	U
Endosulfan sulfate	3.900	ug/kg	C	U	3.600	ug/kg	C	U	3.900	ug/kg	C	U
Endosulfan-I	2.000	ug/kg	C	U	1.800	ug/kg	C	U	2.000	ug/kg	C	U
Endrin	3.900	ug/kg	C	UJ	3.600	ug/kg	C	UJ	3.900	ug/kg	C	UJ
Endrin aldehyde	3.900	ug/kg	C	U	3.600	ug/kg	C	U	3.900	ug/kg	C	U
Endrin ketone	3.900	ug/kg	C	U	3.600	ug/kg	C	U	3.900	ug/kg	C	U
Heptachlor	2.000	ug/kg	C	U	1.800	ug/kg	C	U	2.000	ug/kg	C	U
Heptachlor epoxide	2.000	ug/kg	C	U	1.800	ug/kg	C	U	2.000	ug/kg	C	U
Methoxychlor	20.000	ug/kg	C	UJ	18.000	ug/kg	C	UJ	20.000	ug/kg	C	UJ
Toxaphene	200.000	ug/kg	C	U	180.000	ug/kg	C	U	200.000	ug/kg	C	U
alpha-BHC	2.000	ug/kg	C	U	1.800	ug/kg	C	U	2.000	ug/kg	C	U
alpha-Chlordane	2.000	ug/kg	C	U	1.800	ug/kg	C	U	2.000	ug/kg	C	U
beta-BHC	2.000	ug/kg	C	U	1.800	ug/kg	C	U	2.000	ug/kg	C	U
delta-BHC	2.000	ug/kg	C	U	1.800	ug/kg	C	U	2.000	ug/kg	C	U
gamma-BHC (Lindane)	2.000	ug/kg	C	UJ	1.800	ug/kg	C	UJ	2.000	ug/kg	C	UJ
gamma-Chlordane	2.000	ug/kg	C	U	1.800	ug/kg	C	U	2.000	ug/kg	C	U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-04	K-65 TRENCH			K-65 TRENCH			
SAMPLE NUMBER	114868	114767	0-6	0-6	114776	0-6	0-6	
SAMPLING DATE	0.5-1 06/09/93	05/25/93			06/07/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>								
Aluminum	NA				18600.000	mg/kg C	-	
Antimony	NA				1.700	mg/kg C	UJ	
Arsenic	NA				9.000	mg/kg C	J	
Barium	NA				121.000	mg/kg C	-	
Beryllium	NA				1.000	mg/kg C	-	
Cadmium	NA				1.700	mg/kg C	U	
Calcium	NA				89800.000	mg/kg C	-	
Chromium	NA				17.800	mg/kg C	-	
Cobalt	NA				10.100	mg/kg C	-	
Copper	NA				25.100	mg/kg C	-	
Cyanide	NA				0.180	mg/kg C	U	
Iron	NA				30100.000	mg/kg C	-	
Lead	NA				14.300	mg/kg C	-	
Magnesium	NA				32700.000	mg/kg C	-	
Manganese	NA				648.000	mg/kg C	-	
Mercury	NA				0.150	mg/kg C	U	
Molybdenum	NA				8.900	mg/kg C	U	
Nickel	NA				27.500	mg/kg C	-	
Potassium	NA				2150.000	mg/kg C	-	
Selenium	NA				0.690	mg/kg C	U	
Silicon	NA				1310.000	mg/kg C	U	
Silver	NA				7.800	mg/kg C	U	
Sodium	NA				180.000	mg/kg C	-	
Thallium	NA				0.690	mg/kg C	U	
Vanadium	NA				42.100	mg/kg C	-	
Zinc	NA				80.200	mg/kg C	-	
<u>Volatile Organics</u>								
1,1,1-Trichloroethane	NA				18.000	ug/kg C	U	
1,1,2,2-Tetrachloroethane	NA				18.000	ug/kg C	U	
1,1,2-Trichloroethane	NA				18.000	ug/kg C	U	
1,1-Dichloroethane	NA				18.000	ug/kg C	U	
1,1-Dichloroethene	NA				18.000	ug/kg C	U	
1,2-Dichloroethane	NA				18.000	ug/kg C	U	
1,2-Dichloroethene	NA				18.000	ug/kg C	U	
1,2-Dichloropropane	NA				18.000	ug/kg C	U	
2-Butanone	NA				18.000	ug/kg C	U	
2-Hexanone	NA				18.000	ug/kg C	U	
4-Methyl-2-pentanone	NA				18.000	ug/kg C	U	
Acetone	NA				18.000	ug/kg C	U	
Benzene	NA				18.000	ug/kg C	U	

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TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LSP-SB-04 114868 0.5-1	RESULTS 06/09/93	UNITS L VQ	K-65 TRENCH 114767 0-6	RESULTS 05/25/93	UNITS L VQ	K-65 TRENCH 114776 0-6	RESULTS 06/07/93	UNITS L VQ
<u>Volatile Organics</u>									
Bromodichloromethane	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Bromoform	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Bromomethane	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Carbon Tetrachloride	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Carbon disulfide	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Chlorobenzene	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Chloroethane	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Chloroform	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Chloromethane	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Dibromochloromethane	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Ethylbenzene	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Methylene chloride	NA			18.000	ug/kg C	U	15.000	ug/kg C	U
Styrene	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Tetrachloroethene	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Toluene	NA			18.000	ug/kg C	U	2.000	ug/kg C	U
Trichloroethene	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Vinyl Acetate	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Vinyl chloride	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
Xylenes, Total	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
cis-1,3-Dichloropropene	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
trans-1,3-Dichloropropene	NA			18.000	ug/kg C	U	12.000	ug/kg C	U
<u>Semivolatile Organics</u>									
1,2,4-Trichlorobenzene	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
1,2-Dichlorobenzene	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
1,3-Dichlorobenzene	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
1,4-Dichlorobenzene	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2,4,5-Trichlorophenol	920.000	ug/kg C	U	960.000	ug/kg C	U	1000.000	ug/kg C	U
2,4,6-Trichlorophenol	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2,4-Dichlorophenol	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2,4-Dimethylphenol	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2,4-Dinitrophenol	920.000	ug/kg C	U	960.000	ug/kg C	U	1000.000	ug/kg C	U
2,4-Dinitrotoluene	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2,6-Dinitrotoluene	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2-Benzyl-4-chlorophenol	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2-Chloronaphthalene	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2-Chlorophenol	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2-Methylnaphthalene	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2-Methylphenol	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U
2-Nitroaniline	920.000	ug/kg C	U	960.000	ug/kg C	U	1000.000	ug/kg C	U
2-Nitrophenol	380.000	ug/kg C	U	400.000	ug/kg C	U	420.000	ug/kg C	U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-04	K-65 TRENCH			K-65 TRENCH			
SAMPLE NUMBER	114868	114767	0-6	05/25/93	114776	0-6	06/07/93	
SAMPLING DATE	0.5-1 06/09/93							
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>								
3,3'-Dichlorobenzidine	380.000	ug/kg	C	U	400.000	ug/kg	C	U
3-Nitroaniline	920.000	ug/kg	C	U	960.000	ug/kg	C	U
4,6-Dinitro-2-methylphenol	920.000	ug/kg	C	U	960.000	ug/kg	C	U
4-Bromophenyl phenyl ether	380.000	ug/kg	C	U	400.000	ug/kg	C	U
4-Chloro-3-methylphenol	380.000	ug/kg	C	U	400.000	ug/kg	C	U
4-Chlorophenylphenyl ether	380.000	ug/kg	C	U	400.000	ug/kg	C	U
4-Methylphenol	380.000	ug/kg	C	U	400.000	ug/kg	C	U
4-Nitroaniline	920.000	ug/kg	C	U	960.000	ug/kg	C	U
4-Nitrophenol	920.000	ug/kg	C	U	960.000	ug/kg	C	U
Acenaphthene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Acenaphthylene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Anthracene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzo(a)anthracene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzo(a)pyrene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzo(b)fluoranthene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzo(g,h,i)perylene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzo(k)fluoranthene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Benzoic acid	1800.000	ug/kg	C	R	1900.000	ug/kg	C	U
Benzyl alcohol	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Butyl benzyl phthalate	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Carbazole	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Chrysene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Di-n-butyl phthalate	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Di-n-octyl phthalate	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Dibenzo(a,h)anthracene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Dibenzofuran	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Diethyl phthalate	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Dimethyl phthalate	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Fluoranthene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Fluorene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachlorobenzene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachlorobutadiene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachlorocyclopentadiene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Hexachloroethane	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Indeno(1,2,3-cd)pyrene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Isophorone	380.000	ug/kg	C	U	400.000	ug/kg	C	U
N-Nitroso-di-n-propylamine	380.000	ug/kg	C	U	400.000	ug/kg	C	U
N-Nitrosodimethylamine	380.000	ug/kg	C	U	5.000	ug/kg	C	U
N-Nitrosodiphenylamine	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Naphthalene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Nitrobenzene	380.000	ug/kg	C	U	400.000	ug/kg	C	U
Pentachlorophenol	920.000	ug/kg	C	U	960.000	ug/kg	C	U

TABLE D-6A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SB-04	K-65 TRENCH				K-65 TRENCH						
SAMPLE NUMBER	114868	114767				114776						
SAMPLING DATE	0.5-1 06/09/93	0-6 05/25/93				0-6 06/07/93						
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>												
Phenanthrene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	420.000	ug/kg	C	U
Phenol	380.000	ug/kg	C	U	400.000	ug/kg	C	U	420.000	ug/kg	C	U
Pyrene	380.000	ug/kg	C	U	400.000	ug/kg	C	U	420.000	ug/kg	C	U
Tributyl phosphate	380.000	ug/kg	C	U	400.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Chloroethoxy)methane	380.000	ug/kg	C	U	400.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Chloroethyl)ether	380.000	ug/kg	C	U	400.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Chloroisopropyl) ether	380.000	ug/kg	C	U	400.000	ug/kg	C	U	420.000	ug/kg	C	U
bis(2-Ethylhexyl) phthalate	380.000	ug/kg	C	U	3.000	ug/kg	C	J	55.000	ug/kg	C	J
p-Chloroaniline	380.000	ug/kg	C	U	400.000	ug/kg	C	U	420.000	ug/kg	C	U
<u>Pesticide Organics/PCBs</u>												
4,4'-DDD	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.200	ug/kg	C	U
4,4'-DDE	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.200	ug/kg	C	U
4,4'-DDT	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.200	ug/kg	C	U
Aldrin	2.000	ug/kg	C	U	2.100	ug/kg	C	U	2.200	ug/kg	C	U
Aroclor-1016	39.000	ug/kg	C	U	40.000	ug/kg	C	U	42.000	ug/kg	C	U
Aroclor-1221	79.000	ug/kg	C	U	82.000	ug/kg	C	U	85.000	ug/kg	C	U
Aroclor-1232	39.000	ug/kg	C	U	40.000	ug/kg	C	U	42.000	ug/kg	C	U
Aroclor-1242	39.000	ug/kg	C	U	40.000	ug/kg	C	U	42.000	ug/kg	C	U
Aroclor-1248	39.000	ug/kg	C	U	40.000	ug/kg	C	U	42.000	ug/kg	C	U
Aroclor-1254	39.000	ug/kg	C	U	40.000	ug/kg	C	U	42.000	ug/kg	C	U
Aroclor-1260	39.000	ug/kg	C	U	40.000	ug/kg	C	U	42.000	ug/kg	C	U
Dieldrin	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.200	ug/kg	C	U
Endosulfan II	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.200	ug/kg	C	U
Endosulfan sulfate	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.200	ug/kg	C	U
Endosulfan-I	2.000	ug/kg	C	U	2.100	ug/kg	C	U	2.200	ug/kg	C	U
Endrin	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.200	ug/kg	C	U
Endrin aldehyde	3.900	ug/kg	C	J	4.000	ug/kg	C	J	4.200	ug/kg	C	U
Endrin ketone	3.900	ug/kg	C	U	4.000	ug/kg	C	U	4.200	ug/kg	C	U
Heptachlor	2.000	ug/kg	C	U	2.100	ug/kg	C	U	2.200	ug/kg	C	U
Heptachlor epoxide	2.000	ug/kg	C	U	2.100	ug/kg	C	U	2.200	ug/kg	C	U
Methoxychlor	20.000	ug/kg	C	U	21.000	ug/kg	C	U	22.000	ug/kg	C	U
Toxaphene	200.000	ug/kg	C	U	210.000	ug/kg	C	U	220.000	ug/kg	C	U
alpha-BHC	2.000	ug/kg	C	U	2.100	ug/kg	C	U	2.200	ug/kg	C	U
alpha-Chlordane	2.000	ug/kg	C	U	2.100	ug/kg	C	U	2.200	ug/kg	C	U
beta-BHC	2.000	ug/kg	C	U	2.100	ug/kg	C	U	2.200	ug/kg	C	U
delta-BHC	2.000	ug/kg	C	U	2.100	ug/kg	C	U	2.200	ug/kg	C	U
gamma-BHC (Lindane)	2.000	ug/kg	C	U	2.100	ug/kg	C	U	2.200	ug/kg	C	U
gamma-Chlordane	2.000	ug/kg	C	U	2.100	ug/kg	C	U	2.200	ug/kg	C	U

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TABLE D-6B
LIME SLUDGE PONDS
TENTATIVELY IDENTIFIED COMPOUNDS
SLUDGE AND SUBSURFACE SOIL

Sample Number	Sample Location	Media	Parameter	Result	Units
114605	LSP-SB-1962	SL	azulene	14	ug/kg
114605	LSP-SB-1962	SL	propanoic acid, 2-methyl-,	170	ug/kg
114605	LSP-SB-1962	SL	pentadecane	260	ug/kg
114605	LSP-SB-1962	SL	pentacosane	340	ug/kg
114605	LSP-SB-1962	SL	pentacosane	390	ug/kg
114607	LSP-SB-1962	SL	cyclotetrasiloxane, octameth	15	ug/kg
114607	LSP-SB-1962	SL	3,5-octadiene, 4,5-diethyl-3	4	ug/kg
114607	LSP-SB-1962	SL	octacosane	3	ug/kg
114607	LSP-SB-1962	SL	iron, tricarbonyl n-(phenyl-	3	ug/kg
114607	LSP-SB-1962	SL	iron, tricarbonyl n-(phenyl-	3	ug/kg
114607	LSP-SB-1962	SL	heptacosane	3	ug/kg
114607	LSP-SB-1962	SL	heptacosane	3	ug/kg
114607	LSP-SB-1962	SL	heptacosane	3	ug/kg
114607	LSP-SB-1962	SL	hexadecane, 1-iodo-	5	ug/kg
114607	LSP-SB-1962	SL	tritetracontane	4	ug/kg
114607	LSP-SB-1962	SL	hexanedioic acid, mono(2-eth	4	ug/kg
114607	LSP-SB-1962	SL	tritetracontane	4	ug/kg
114607	LSP-SB-1962	SL	tritetracontane	4	ug/kg
114607	LSP-SB-1962	SL	tritetracontane	4	ug/kg
114737	1960	SL	propanoic acid, 2-methyl-,	84	ug/kg
114737	1960	SL	tritetracontane	94	ug/kg
114737	1960	SL	dotriaccontane	110	ug/kg
114737	1960	SL	tritetracontane	110	ug/kg
114737	1960	SL	tritetracontane	87	ug/kg
114737	1960	SL	dotriaccontane	89	ug/kg
114737	1960	SL	2,6,10,14,18,22-tetracosahex	110	ug/kg
114743	1961	SL	propanoic acid, 2-oxo, ethy	190	ug/kg
114743	1961	SL	2-hexanone, 6-(acetoxy)-	400	ug/kg
114743	1961	SL	hexanoic acid	140	ug/kg
114743	1961	SL	2-butanol, 3-methyl-, acetat	1200	ug/kg
114743	1961	SL	pentadecane	170	ug/kg
114743	1961	SL	decane, 6-ethyl-2-methyl-	170	ug/kg
114743	1961	SL	propanoic acid, 2-methyl-,	130	ug/kg
114743	1961	SL	octacosane	150	ug/kg
114743	1961	SL	nonacosane	130	ug/kg
114743	1961	SL	pentatriacontane	120	ug/kg
114743	1961	SL	heptacosane	120	ug/kg
114743	1961	SL	heptacosane	150	ug/kg
114743	1961	SL	heptacosane	200	ug/kg
114743	1961	SL	9-octadecenamide, (z)-	560	ug/kg
114743	1961	SL	heptacosane	160	ug/kg
114743	1961	SL	hexanedioic acid, mono(2-eth	320	ug/kg
114743	1961	SL	heptacosane	250	ug/kg
114743	1961	SL	tritetracontane	220	ug/kg
114743	1961	SL	heptacosane	270	ug/kg
114743	1961	SL	tritetracontane	430	ug/kg
114745	1961	SL	propanoic acid, 2-oxo, ethy	270	ug/kg
114745	1961	SL	2-hexanone, 6-(acetoxy)-	650	ug/kg
114745	1961	SL	9-octadecenamide, (z)-	870	ug/kg
114745	1961	SL	hexanedioic acid, mono(2-eth	470	ug/kg
114762	1963	SL	propanoic acid, 2-oxo, ethy	190	ug/kg
114762	1963	SL	2-hexanone, 6-(acetoxy)-	460	ug/kg
114762	1963	SL	9-octadecenamide, (z)-	940	ug/kg
114766	1963	SL	hydroperoxide, 1-methylethyl	970	ug/kg

TABLE D-6B
LIME SLUDGE PONDS
TENTATIVELY IDENTIFIED COMPOUNDS
SLUDGE AND SUBSURFACE SOIL

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Sample Number	Sample Location	Media	Parameter	Result	Units
114766	1963	SL	7-oxabicyclo 4.1.0 heptane	150	ug/kg
114766	1963	SL	2-propanone, 1-(acetoxy)-	140	ug/kg
114766	1963	SL	2-nonane, 9-(tetrahydro-2	430	ug/kg
114766	1963	SL	2-butanol, 3-methyl-, acetat	1900	ug/kg
114766	1963	SL	octacosane	140	ug/kg
114766	1963	SL	octacosane	130	ug/kg
114766	1963	SL	propanoic acid, 2-methyl-,	100	ug/kg
114766	1963	SL	heptadecane	110	ug/kg
114766	1963	SL	heptadecane	130	ug/kg
114766	1963	SL	pentadecane, 2,6,10,14-tetra	180	ug/kg
114766	1963	SL	octacosane	100	ug/kg
114766	1963	SL	hexadecane, 2,6,10,14-tetram	110	ug/kg
114766	1963	SL	nonacosane	110	ug/kg
114766	1963	SL	heptacosane	100	ug/kg
114766	1963	SL	heptacosane	100	ug/kg
114766	1963	SL	heptacosane	100	ug/kg
114766	1963	SL	hexatriacontane	120	ug/kg
114766	1963	SL	cyclotetradecanone, 2-methyl	190	ug/kg
114766	1963	SL	hexatriacontane	100	ug/kg
114766	1963	SL	dotriacontane	96	ug/kg
114814	1959	SL	2-hexanone, 6-(acetoxy)-	360	ug/kg
114814	1959	SL	3-hexene-2-one, 5-methyl-	91	ug/kg
114814	1959	SL	hexanoic acid, anhydride	240	ug/kg
114814	1959	SL	1,3-dioxolane-2-ethanol, 2-m	89	ug/kg
114814	1959	SL	propanoic acid, 2-methyl-,	110	ug/kg
114814	1959	SL	1,2-benzenedicarboxylic acid	410	ug/kg
114814	1959	SL	eicosane, 2-methyl-	110	ug/kg
114814	1959	SL	9-octadecenamide, (z)-	310	ug/kg
114814	1959	SL	tritetraccontane	230	ug/kg
114814	1959	SL	hexanedioic acid, diethyl es	140	ug/kg
114814	1959	SL	tetratetracontane	250	ug/kg
114814	1959	SL	tritetraccontane	290	ug/kg
114814	1959	SL	tritetraccontane	330	ug/kg
114814	1959	SL	eicosane, 2-methyl-	210	ug/kg
114814	1959	SL	eicosane, 2-methyl-	370	ug/kg
114815	1959	SL	2-hexanone, 6-(acetoxy)-	390	ug/kg
114815	1959	SL	3-hexene-2-one, 5-methyl-	87	ug/kg
114815	1959	SL	hexanoic acid	94	ug/kg
114815	1959	SL	2-propanol, 1,1,1-trichloro-	170	ug/kg
114815	1959	SL	iron, tricarbonyl n-phenyl-	86	ug/kg
114815	1959	SL	propanoic acid, 2-methyl-,	120	ug/kg
114815	1959	SL	1,2-benzenedicarboxylic acid	490	ug/kg
114815	1959	SL	tritetraccontane	94	ug/kg
114815	1959	SL	tritetraccontane	100	ug/kg
114815	1959	SL	tritetraccontane	140	ug/kg
114815	1959	SL	hexanedioic acid, diethyl es	460	ug/kg
114815	1959	SL	tritetraccontane	140	ug/kg
114815	1959	SL	tritetraccontane	140	ug/kg
114815	1959	SL	tritetraccontane	160	ug/kg
114815	1959	SL	eicosane, 2-methyl-	230	ug/kg
114821	1958	SL	3-hexene-2-one, 5-methyl-	150	ug/kg
114821	1958	SL	1,2-benzenedicarboxylic acid	180	ug/kg
114821	1958	SL	tritetraccontane	190	ug/kg
114821	1958	SL	tritetraccontane	150	ug/kg
114821	1958	SL	tritetraccontane	160	ug/kg
114821	1958	SL	arsenosic acid, tris(trimethyl	140	ug/kg
114821	1958	SL		180	ug/kg

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TABLE D-6B
LIME SLUDGE PONDS
TENTATIVELY IDENTIFIED COMPOUNDS
SLUDGE AND SUBSURFACE SOIL

Sample Number	Sample Location	Media	Parameter.	Result	Units
114838	1957	SL	propanoic acid, 2-methyl-,	120	ug/kg
114838	1957	SL	tritetracontane	150	ug/kg
114838	1957	SL	hexanedioic acid, mono(2-eth	230	ug/kg
114838	1957	SL	tritetracontane	120	ug/kg
114838	1957	SL	tritetracontane	120	ug/kg
114838	1957	SL	tritetracontane	120	ug/kg
114838	1957	SL	tritetracontane	110	ug/kg
114838	1957	SL	eicosane, 2-methyl-	140	ug/kg
114859	1956	SL	3-pentene-2-oen, 3,4-dimetyl	150	ug/kg
114859	1956	SL	1-hexanol, 2-ethyl-	140	ug/kg
114859	1956	SL	nonanoic acid	240	ug/kg
114859	1956	SL	propanoic acid, 2-methyl-,	160	ug/kg
114859	1956	SL	hexanedioic acid, mono(2-eth	140	ug/kg
114859	1956	SL	tritetracontane	110	ug/kg
114859	1956	SL	tritetracontane	120	ug/kg
114859	1956	SL	tritetracontane	170	ug/kg
114835	1957	SL	hexanoic acid	140	ug/kg
114835	1957	SL	hexanoic acid, anhydride	180	ug/kg
114835	1957	SL	propanoic acid, 2-methyl-,	130	ug/kg
114835	1957	SL	nonanamide	150	ug/kg
114835	1957	SL	heptanamide, 4-ethyl-5-methy	190	ug/kg
114835	1957	SL	9-octadecenamide, (z)	150	ug/kg
114835	1957	SL	tritetracontane	170	ug/kg
114835	1957	SL	tritetracontane	180	ug/kg
114835	1957	SL	tritetracontane	510	ug/kg
114835	1957	SL	dotriaccontane	520	ug/kg
114835	1957	SL	hexadecane, 1-(ethoxyloxy)-	150	ug/kg
114835	1957	SL	1,2-henzenedicarboxylic acid	210	ug/kg
114835	1957	SL	1,2-henzenedicarboxylic acid	180	ug/kg
114874	1963	SL	decane, 6-ethyl-2-methyl-	220	ug/kg
114874	1963	SL	propanoic acid, 2-methyl-,	250	ug/kg
114874	1963	SL	iron, tricarbonyl n-phenyl-	280	ug/kg
114874	1963	SL	heptadecane, 2,6,10,15-tetra	300	ug/kg
114874	1963	SL	eicosane, 2-methyl-	380	ug/kg
114874	1963	SL	9-octadecenamide, (z)	790	ug/kg
114874	1963	SL	eicosane, 2-methyl-	480	ug/kg
114874	1963	SL	eicosane, 2-methyl-	690	ug/kg
114874	1963	SL	eicosane, 2-methyl-	590	ug/kg
114874	1963	SL	eicosane, 2-methyl-	200	ug/kg
114881	LSP-SS-10	SL	propanoic acid, 2-methyl-,	210	ug/kg
114767	LSP/K65 TRNCH	SB	dodecanamide	3	ug/kg
114767	LSP/K65 TRNCH	SB	hexanedioic acid, mono(2-eth	4	ug/kg
114812	1959	SB	2-hexanone, 6-(acetoxy)-	740	ug/kg
114812	1959	SB	hexanoic acid	160	ug/kg
114812	1959	SB	2-propanol, 1,1,1-trichloro-	300	ug/kg
114812	1959	SB	1,3-dioxolane-2-ethanol, 2-m	160	ug/kg
114812	1959	SB	propanoic acid, 2-methyl-, 1	270	ug/kg
114812	1959	SB	1,2-henzenedicarboxylic acid	850	ug/kg
114812	1959	SB	hexanedioic acid, dioctyl es	420	ug/kg
114776	LSP/K65	SB	tritetracontane	91	ug/kg
114776	LSP/K65	SB	tritetracontane	90	ug/kg
114776	LSP/K65	SB	tritetracontane	90	ug/kg
114868	LSP-SS-04	SB	phenol, 2-fluoro-	140	ug/kg
114868	LSP-SS-04	SB	spiro 4.5 dec-7-ene, 1,8-dim	110	ug/kg
114868	LSP-SS-04	SB	9-octadecenamide, (z)-	530	ug/kg
114868	LSP-SS-04	SB	tritetracontane	110	ug/kg
114868	LSP-SS-04	SB	tritetracontane	130	ug/kg
114868	LSP-SS-04	SB	tritetracontane	170	ug/kg

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TABLE D-6B
LIME SLUDGE PONDS
TENTATIVELY IDENTIFIED COMPOUNDS
SLUDGE AND SUBSURFACE SOIL

Sample Number	Sample Location	Media	Parameter	Result	Units
114868	LSP-SS-04	SB	bicyclo 2.2.1 heptane, 2,2,3	290	ug/kg
114868	LSP-SS-04	SB	tritetracontane	93	ug/kg
114868	LSP-SS-04	SB	tritetracontane	200	ug/kg
114868	LSP-SS-04	SB	arsenous acid, tris (trimethyl)	160	ug/kg
114868	LSP-SS-04	SB	arsenous acid, tris (trimethyl)	210	ug/kg
114773	K65 TRNCH	SB	tetradecanoic acid	420	ug/kg
114773	K65 TRNCH	SB	nonanamide	140	ug/kg
114773	K65 TRNCH	SB	tritetracontane	340	ug/kg
114773	K65 TRNCH	SB	(z)14-tricosenyl formate	410	ug/kg
114773	K65 TRNCH	SB	(z)14-tricosenyl formate	410	ug/kg
114773	K65 TRNCH	SB	tritetracontane	980	ug/kg
114773	K65 TRNCH	SB	benzo-j-fluoranthene	220	ug/kg
114773	K65 TRNCH	SB	tritetracountane	1300	ug/kg
114773	K65 TRNCH	SB	octadecane, 9-ethyl-9-heptyl	220	ug/kg
114773	K65 TRNCH	SB	arsenous acid, tris (trimethyl)	160	ug/kg
114773	K65 TRNCH	SB	arsenous acid, tris (trimethyl)	430	ug/kg
114500	LSP-SS-11	SB	1,3-dioxolane-2-propanol, 2-	600	ug/kg
114500	LSP-SS-11	SB	ethanone, 1-oxiranyl-	640	ug/kg
114500	LSP-SS-11	SB	tetratetracontane	120	ug/kg
114500	LSP-SS-11	SB	tetratetracontane	250	ug/kg
114500	LSP-SS-11	SB	hexanedioic acid, diethyl ester	2700	ug/kg
114500	LSP-SS-11	SB	tetratetracontane	220	ug/kg
114500	LSP-SS-11	SB	tetratetracontane	190	ug/kg
114500	LSP-SS-11	SB	tritetracountane	120	ug/kg
114508	LSP-SB-02	SB	3-hexen-2-one, 5-methyl-	690	ug/kg
114508	LSP-SB-02	SB	5-octen-4-one, 7-methyl-	310	ug/kg
114508	LSP-SB-02	SB	1,2-benzenedicarboxylic acid	86	ug/kg
114508	LSP-SB-02	SB	hexanedioic acid, diethyl ester	980	ug/kg
114508	LSP-SB-02	SB	tetratetracontane	210	ug/kg
114508	LSP-SB-02	SB	tetratetracontane	160	ug/kg
114508	LSP-SB-02	SB	tetratetracontane	130	ug/kg
114508	LSP-SB-02	SB	hexadecanal	110	ug/kg
114508	LSP-SB-02	SB	eicosane, 2-methyl-	210	ug/kg
114510	LSP-SB-03	SB	3-hexen-2-one, 5-methyl-	680	ug/kg
114510	LSP-SB-03	SB	4-octenoic acid, 6-ethyl-3-h	130	ug/kg
114510	LSP-SB-03	SB	1,2-benzenedicarboxylic acid	150	ug/kg
114510	LSP-SB-03	SB	tetratetracontane	200	ug/kg
114510	LSP-SB-03	SB	tetratetracontane	350	ug/kg
114510	LSP-SB-03	SB	tetratetracontane	430	ug/kg
114510	LSP-SB-03	SB	tetratetracontane	340	ug/kg
114510	LSP-SB-03	SB	tetratetracontane	200	ug/kg
114570	LSP-SB-03	SB	hexane, 2-bromo-	110	ug/kg
114570	LSP-SB-03	SB	pentacosane	250	ug/kg
114570	LSP-SB-03	SB	pentacosane	510	ug/kg
114570	LSP-SB-03	SB	pentacosane	660	ug/kg
114570	LSP-SB-03	SB	pentacosane	530	ug/kg
114570	LSP-SB-03	SB	pentacosane	380	ug/kg
114570	LSP-SB-03	SB	pentacosane	240	ug/kg
114564	LSP-SB-01	SB	3-penten-2-one	160	ug/kg
114564	LSP-SB-01	SB	cyclocloropropane, 1,1,2,2-tetram	130	ug/kg
114564	LSP-SB-01	SB	1-heptanol, 2,4-dimethyl,	87	ug/kg
114564	LSP-SB-01	SB	heptadecane, 2,6-dimethyl	140	ug/kg
114564	LSP-SB-01	SB	pentadecane	260	ug/kg
114564	LSP-SB-01	SB	octacosane	290	ug/kg
114564	LSP-SB-01	SB	heptadecane, 2,6-dimethyl	230	ug/kg
114564	LSP-SB-01	SB	pentadecane	170	ug/kg
114564	LSP-SB-01	SB	pentadecane	130	ug/kg
114564	LSP-SB-01	SB	octacosane	180	ug/kg

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TABLE D-6B
LIME SLUDGE PONDS
TENTATIVELY IDENTIFIED COMPOUNDS
SLUDGE AND SUBSURFACE SOIL

Sample Number	Sample Location	Media	Parameter	Result	Units
114576	LSP-SB-07	SB	heptadecane, 2,6-dimethyl	98	ug/kg
114576	LSP-SB-07	SB	pentadecane	110	ug/kg
114576	LSP-SB-07	SB	heptadecane, 2,6-dimethyl	160	ug/kg
114576	LSP-SB-07	SB	heptadecane, 2,6-dimethyl	120	ug/kg
114576	LSP-SB-07	SB	heptadecane, 2,6-dimethyl	180	ug/kg
114576	LSP-SB-07	SB	octacosane	110	ug/kg
114600	LSP-SB-05	SB	2(5H)-furanone, 5,5-dimethyl	800	ug/kg
114600	LSP-SB-05	SB	1,2-benzenedicarboxylic acid	83	ug/kg
114600	LSP-SB-05	SB	1-octanol, 2-butyl-	72	ug/kg
114600	LSP-SB-05	SB	pentadecane	130	ug/kg
114600	LSP-SB-05	SB	heptadecane, 2,6-dimethyl	210	ug/kg
114600	LSP-SB-05	SB	heptadecane, 2,6-dimethyl	220	ug/kg
114600	LSP-SB-05	SB	octacosane	240	ug/kg
114600	LSP-SB-05	SB	pentadecane	210	ug/kg
114600	LSP-SB-05	SB	pentadecane	360	ug/kg
114600	LSP-SB-05	SB	heptadecane, 2,6-dimethyl	160	ug/kg
114600	LSP-SB-05	SB	docosane	260	ug/kg
114600	LSP-SB-05	SB	heptadecane, 2,6-dimethyl	80	ug/kg
114602	LSP-SB-06	SB	pentadecane	210	ug/kg
114602	LSP-SB-06	SB	pentadecane	410	ug/kg
114602	LSP-SB-06	SB	pentadecane	600	ug/kg
114602	LSP-SB-06	SB	benzenepropanoic acid, .alpha.	140	ug/kg
114602	LSP-SB-06	SB	pentadecane	650	ug/kg
114602	LSP-SB-06	SB	pentadecane	500	ug/kg
114602	LSP-SB-06	SB	docosane	280	ug/kg
114602	LSP-SB-06	SB	octacosane	400	ug/kg
114602	LSP-SB-06	SB	heptadecane, 2,6-dimethyl	170	ug/kg
114602	LSP-SB-06	SB	heptadecane, 2,6-dimethyl	210	ug/kg

SL - sludge

SB - subsurface soil

TABLE D-7A
LIME SLUDGE PONDS
CIS SUBSURFACE SOIL RESULTS
ANALYSIS OF COMPOSITE SAMPLES
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SAMPLE #				PS48002			PS48015			PS48029			PS47005		
Boring				48-01			48-02			48-03			47-01		
Depth				2'-11"2"			0-12'			0-12'			22-42"		
Date				03/31/87			03/31/87			04/01/87			03/12/87		
Isotope	Uncertainty	VQ	UNITS												
Cesium-137	0.6	UJ	pCi/g	0.6	UJ	pCi/g	0.5	UJ	pCi/g	1.0	UJ	pCi/g			
Lead-210															
Neptunium-237	0.09	U	pCi/g	0.09	U	pCi/g	0.06	U	pCi/g	0.09	U	pCi/g			
Plutonium-239/240	0.05	UJ	pCi/g												
Plutonium-238	0.05	UJ	pCi/g	0.05	UJ	pCi/g	0.05	UJ	pCi/g	0.06	UJ	pCi/g			
Ruthenium-106	5.0	UJ	pCi/g	5.0	UJ	pCi/g	5.0	UJ	pCi/g	6.0	UJ	pCi/g			
Strontium-90	0.37	U	pCi/g	0.35	U	pCi/g	0.39	U	pCi/g	0.48	U	pCi/g			
Technetium-99	1.20	U	pCi/g	1.00	U	pCi/g	0.70	U	pCi/g	0.80	U	pCi/g			
Thorium-228	0.5±0.2	J	pCi/g	0.2±0.1	J	pCi/g	0.10	U	pCi/g	0.2±0.2	J	pCi/g			
Thorium-232	0.5±0.2	J	pCi/g	0.2±0.1	J	pCi/g	0.10	U	pCi/g	0.2±0.2	J	pCi/g			
Thorium-230	54±2	J	pCi/g	19±1.0	J	pCi/g	8.5±1.0	J	pCi/g	20±1.0	J	pCi/g			
Uranium-234	3.1±0.8	J	pCi/g	1.8±0.3	U	pCi/g	2.0±0.3	U	pCi/g	2.5±0.2	U	pCi/g			
Uranium-238	2.2±0.7	J	pCi/g	2.8±0.3	J	pCi/g	2.7±0.3	U	pCi/g	7.6±0.4	U	pCi/g			
Uranium-235	0.3±0.3	J	pCi/g	0.1±0.1	U	pCi/g	0.1±0.1	U	pCi/g	0.1±0.1	U	pCi/g			

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TABLE D-7A
(Continued)

SAMPLE #	PS47010			PS47017		
	Boring	47-02			47-03	
Depth	24"-46"			24"-44"		
Date	03/12/87			03/12/87		
Isotope	Uncertainty	VQ	UNITS	Uncertainty	VQ	UNITS
Cesium-137	2.0	UJ	pCi/g	0.8	UJ	pCi/g
Lead-210						
Neptunium-237	0.11	U	pCi/g	0.08	U	pCi/g
Plutonium-238	0.09	UJ	pCi/g	0.05	UJ	pCi/g
Plutonium-239/240	0.05	UJ	pCi/g	0.05	UJ	pCi/g
Ruthenium-106	6.0	UJ	pCi/g	5.0	UJ	pCi/g
Strontium-90	0.39	U	pCi/g	0.38	U	pCi/g
Technetium-99	0.90	U	pCi/g	0.90	U	pCi/g
Thorium-232	0.2±0.1	J	pCi/g	0.1±0.1	J	pCi/g
Thorium-230	5.0±0.4	J	pCi/g	1.7±0.2	J	pCi/g
Thorium-228	0.2±0.1	J	pCi/g	0.1±0.1	J	pCi/g
Uranium-234	2.5±0.2	U	pCi/g	2.1±0.2	U	pCi/g
Uranium-235	0.2±0.1	J	pCi/g	0.1±0.1	U	pCi/g
Uranium-238	2.4±0.2	U	pCi/g	2.7±0.2	U	pCi/g

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TABLE D-7B

**LIME SLUDGE PONDS
CIS SUBSURFACE SOIL RESULTS
NON-RADIOLOGICAL DATA
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
INORGANICS (mg/kg)						
Antimony	0.9	J	0.8	J	0.7	J
Arsenic	6.3		12		16	
Barium	22	J	15	J	33	J
Beryllium	0.4	U	0.3	U	0.4	J
Cadmium	4.2		2.9		5.3	
Calcium	262000		260000		252000	
Chromium	14		9.4		22	
Cobalt	60	J	4.6	U	9.5	J
Copper	15		2.0		24	
Cyanide	0.5	U	0.5	U	0.5	U
Iron	14600		8990		20600	
Lead	27	J	11	J	13	J
Magnesium	19100	J	19700	J	21200	J
Manganese	617		546		638	
Mercury	0.3		0.3		0.2	J
Nickel	12	J	11	J	23	
Potassium	1070	J	695	J	1670	J
Selenium	0.5	U	0.5	U	0.5	U
Silver	3.2	J	2.9	J	2.6	J
Sodium	1530	J	450	J	304	J
Thallium	0.7	U	0.6	U	0.6	U
Vanadium	13	J	7.4	J	25	
Zinc	45		38		75	

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TABLE D-7B
(Continued)

Analyte	Result	Validation Qualifier	PCBs/PESTICIDES ($\mu\text{g}/\text{kg}$)			Result	Validation Qualifier
			Sample No. PS-47-001		Sample No. PS-47-007		
			Boring 47-01	Boring 47-02	Boring 47-02	Boring 47-03	Boring 47-03
SEMI-VOLATILE ORGANICS ($\mu\text{g}/\text{kg}$)							
1,2,4-trichlorobenzene	940	U		810	U	850	U
1,2-dichlorobenzene	940	U		810	U	850	U
1,3-dichlorobenzene	940	U		810	U	850	U
1,4-dichlorobenzene	940	U		810	U	850	U
2,4,5-trichlorophenol	940	U		4100	U	4300	U

TABLE D-7B
(Continued)

Analyte	Result Sample No. PS-47-001 Boring 47-01	Validation Qualifier		Result Sample No. PS-47-007 Boring 47-02	Validation Qualifier		Result Sample No. PS-47-013 Boring 47-03		
		SEMI-VOLATILE ORGANICS ($\mu\text{g}/\text{kg}$)							
2,4,6-trichlorophenol	940	U		810	U	850	U		
2,4-dichlorophenol	940	U		810	U	850	U		
2,4-dimethylphenol	940	U		810	U	850	U		
2,4-dinitrophenol	4700	UJ		4100	UJ	4300	UJ		
2,4-dinitrotoluene	940	U		810	U	850	U		
2,6-dinitrotoluene	940	U		810	U	850	U		
2-chloronaphthalene	940	U		810	U	850	U		
2-chlorophenol	940	U		810	U	850	U		
2-methylnaphthalene	940	U		810	U	850	U		
2-methylphenol	940	U		810	U	850	U		
2-nitroaniline	4700	U		4100	U	4300	U		
2-nitrophenol	940	U		810	U	850	U		
3,3-dichlorobenzidine	1900	U		1600	U	1700	U		
3-nitroaniline	4700	U		4100	U	4300	U		
4,6-dinitro-2-methylphenol	4700	U		4100	U	4300	U		
4-bromophenyl phenyl ether	940	U		810	U	850	U		
4-chloroaniline	940	U		810	U	850	U		
4-chloro-3-methylphenol	940	U		810	U	850	U		
4-methylphenol	940	U		810	U	850	U		
4-nitroaniline	4700	UJ		4100	U	4300	UJ		
4-nitrophenol	4700	UJ		4100	UJ	4300	UJ		
Acenaphthene	940	U		810	U	850	U		
Acenaphthylene	940	U		810	U	850	U		
Anthracene	940	U		810	U	850	U		
Benzoic acid	4700	UJ		4100	UJ	4300	UJ		
Benzo(a)anthracene	940	U		810	U	850	U		
Benzo(a)pyrene	940	U		810	U	850	U		
Benzo(b)fluoranthene	940	U		810	U	850	U		
Benzo(g,h,i)perylene	940	U		810	U	850	U		

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TABLE D-7B
(Continued)8178
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Analyte	Result Sample No. PS-47-001 Boring 47-01	Validation Qualifier	Result Sample No. PS-47-007 Boring 47-02	Validation Qualifier	Result Sample No. PS-47-013 Boring 47-03	Validation Qualifier
Benzo(k)fluoranthene	940	U	810	U	850	U
Benzyl alcohol	940	U	810	U	850	U
Bis(2-chloroethoxy)methane	940	U	810	U	850	U
Bis(2-chloroethyl)ether	940	U	810	U	850	U
Bis(2-chloroisopropyl)ether	940	U	810	U	850	U
Bis(2-ethylhexyl)phthalate	180	J	150	J	310	J
Bis(chloromethyl)ether	32	U	26	J	31	U
Butyl benzyl phthalate	2800	U	810	U	370	J
Chrysene	940	U	810	U	850	U
Dibenzofuran	940	U	810	U	850	U
Dibenzo(a,h)anthracene	940	U	810	U	850	U
Diethyl phthalate	940	U	810	U	850	U
Dimethyl phthalate	940	U	810	U	850	U
Di-n-butylphthalate	940	U	89	U	120	U
Di-n-octylphthalate	940	U	810	U	850	U
Fluoranthene	940	U	810	U	850	U
Fluorene	940	U	810	U	850	U
Hexachlorobenzene	940	U	810	U	850	U
Hexachlorobutadiene	940	U	810	U	850	U
Hexachlorocyclopentadiene	940	U	810	U	850	U
Hexachloroethane	940	U	810	U	850	U
Indeno(1,2,3-cd)pyrene	940	UJ	810	U	850	UJ
Isophorone	940	U	810	U	850	U
Naphthalene	940	U	810	U	850	U
Nitrobenzene	940	U	810	U	850	U
N-nitrosodiphenylamine	940	U	810	U	850	U
N-nitroso-di-n-propylamine	940	U	810	U	850	U
Pentachlorophenol	4700	U	4100	U	4300	U
Phenanthrene	940	U	810	U	850	U

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TABLE D-7B
(Continued)

Analyte	Result Sample No. PS-47-001 Boring 47-01	Validation Qualifier	Result Sample No. PS-47-007 Boring 47-02	Validation Qualifier	Result Sample No. PS-47-013 Boring 47-03	Validation Qualifier
Phenol	940	U	810	U	610	J
Pyrene	940	UJ	810	U	850	UJ
SEMIVOLATILE ORGANICS ($\mu\text{g/kg}$)						
1,1,1-trichloroethane	16	U	13	J	16	U
1,1,2,2-tetrachloroethane	16	U	13	J	16	U
1,1,2-trichloroethane	16	U	13	U	16	U
1,1-dichloroethane	16	U	3	J	16	U
1,1-dichloroethene	16	U	13	J	16	U
1,2-dichloroethane	16	U	13	J	16	U
1,2-dichloropropane	16	U	13	U	16	U
2-butanone	32	R	13	J	16	U
2-chloroethyl vinyl ether	32	UJ	26	R	31	R
2-hexanone	32	U	26	UJ	31	UJ
4-methyl-2-pentanone	32	U	26	J	31	U
Acetone	130	J	26	J	31	U
Acrolein	32	R	150	J	20	J
Acrolein	ND	NV	26	R	31	R
Acrylonitrile	32	U	26	J	31	U
Benzene	16	U	13	J	16	U
Bromodichloromethane	16	U	13	J	16	U
Bromoform	16	U	13	J	16	U
Bromomethane	32	UJ	26	UJ	31	UJ
Carbon disulfide	9	J	7	J	9	J
Carbon tetrachloride	16	U	13	J	16	U
Chlorobenzene	16	U	13	J	16	U
Chloroethane	32	U	26	J	31	U
Chloroform	16	U	13	J	16	U
Chloromethane	32	R	26	R	31	R
Dibromochloromethane	16	U	13	J	16	U

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TABLE D-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	Sample No. PS-47-001		Sample No. PS-47-007		Sample No. PS-47-013	
	Boring 47-01	Boring 47-02	Boring 47-03	Boring 47-03	Boring 47-03	Boring 47-03
VOLATILE ORGANICS (µg/kg) (Continued)						
Dichlorodifluoromethane	32	U	26	J	31	U
Ethylbenzene	16	U	13	J	16	U
Methylene chloride	21	-	26	J		
Styrene	16	U	13	J	16	U
Tetrachloroethene	16	U	13	J	16	U
Toluene	16	U	20	J	16	U
Total xylene	16	U	13	J	16	U
Trans-1,2-dichloroethene	16	U	13	J	16	U
Trichloroethene	16	U	13	J	16	U
Vinyl acetate	32	U	26	J	31	U
Vinyl chloride	32	U	26	J	31	U
Sample No. PS-48-001		Sample No. PS-48-014		Sample No. PS-48-027		
	Boring 48-01		Boring 48-02		Boring 48-03	
INORGANICS (mg/kg)						
Aluminum	6020	J	4350	J	5150	J
Antimony	1.8	U	2.0	U	1.7	UJ
Arsenic	50	-	3.2	J	2.9	J
Barium	59	J	73	-	55	-
Beryllium	0.3	U	0.3	U	0.4	U
Cadmium	1.0	J	1.0	J	1.1	-
Calcium	334000	J	298000	J	30200	-
Chromium	6.9	-	6.0	-	5	-
Cobalt	3.9	U	3.8	U	3.4	U
Copper	12	U	7.3	U	6.8	U
Cyanide	1.0	R	0.9	R	0.9	UJ
Iron	6940	J	5040	J	6180	J
Lead	1.3	U	1.1	U	2.1	J
Magnesium	17700	J	15100	J	18000	-
Manganese	717	J	747	J	695	J

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TABLE D-7B
(Continued)

Analyte	Result	Validation Qualifier	Result		Validation Qualifier		Result	Validation Qualifier		
			Sample No. PS-48-001		Sample No. PS-48-014					
			Boring 48-01	Boring 48-02	Boring 48-02	Boring 48-03				
INORGANICS (mg/kg)										
Mercury	0.2	U	0.2	U	0.2	U	-	-		
Nickel	6.2	U	6.0	U	6.5	U	-	-		
Potassium	343	J	33	J	216	-	-	-		
Selenium	0.4	UJ	0.4	UJ	0.6	UJ	-	-		
Silver	2.3	U	2.3	U	2.4	UJ	-	-		
Sodium	106	U	103	U	112	U	-	-		
Thallium	0.5	U	0.5	U	0.4	UJ	-	-		
Vanadium	5.8	J	2.6	U	5.0	U	-	-		
Zinc	16	U	17	U	14	-	-	-		
PCBs/PESTICIDES (µg/kg)										
4,4-dde	30	U	28	U	28	U	-	-		
Aldrin	15	U	14	U	14	U	-	-		
Alpha-bhc	15	U	14	U	14	U	-	-		
Aroclor 1016	150	U	140	U	140	U	-	-		
Aroclor 1221	150	U	140	U	140	U	-	-		
Aroclor 1232	150	U	140	U	140	U	-	-		
Aroclor 1242	150	U	140	U	140	U	-	-		
Aroclor 1248	150	U	140	U	140	U	-	-		
Aroclor 1254	300	U	280	U	280	U	-	-		
Aroclor 1260	300	U	280	U	280	U	-	-		
Beta-bhc	15	U	14	U	14	U	-	-		
Chlordane	150	U	140	U	140	U	-	-		
Delta-bhc	15	U	14	U	14	U	-	-		
Dieldrin	30	U	28	U	28	U	-	-		
Endosulfan I	15	U	14	U	14	U	-	-		
Endosulfan II	30	U	28	U	28	U	-	-		
Endosulfan sulfate	30	U	28	U	28	U	-	-		
Endrin	30	U	28	U	28	U	-	-		
Endrin ketone	30	U	28	U	28	U	-	-		

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TABLE D-7B
(Continued)

Analyte	Result	Validation Qualifier	PCBs/PESTICIDES ($\mu\text{g}/\text{kg}$)		SEMIVOLATILE ORGANICS ($\mu\text{g}/\text{kg}$)	
			Sample No. PS-48-001 Boring 48-01		Sample No. PS-48-014 Boring 48-02	
Heptachlor	15	U	14	U	14	U
Heptachlor epoxide	15	U	14	U	14	U
Methoxychlor	150	U	140	U	140	U
Toxaphene	300	U	280	U	280	U
SEMIVOLATILE ORGANICS ($\mu\text{g}/\text{kg}$)						
1,2,4-trichlorobenzene	690	U	640	U	670	U
1,2-dichlorobenzene	690	U	640	U	670	U
1,3-dichlorobenzene	690	U	640	U	670	U
1,4-dichlorobenzene	690	U	640	U	670	U
2,4,5-trichlorophenol	3500	UJ	3200	UJ	3400	U
2,4,6-trichlorophenol	690	U	640	U	670	U
2,4-dichlorophenol	690	U	640	U	670	U
2,4-dimethylphenol	160	UJ	640	U	670	U
2,4-dinitrophenol	3500	UJ	3200	UJ	3400	UJ
2,4-dinitrotoluene	690	U	640	U	670	U
2,6-dinitrotoluene	690	UJ	640	UJ	670	U
2-chloronaphthalene	690	UJ	640	UJ	670	U
2-chlorophenol	690	U	640	U	670	U
2-methylnaphthalene	690	U	640	U	670	U
2-methylphenol	690	U	640	U	670	U
2-nitroaniline	3500	U	3200	U	3400	U
2-nitrophenol	690	U	640	U	670	U
3,3-dichlorobenzidine	1400	U	1300	U	1300	U
3-nitroaniline	3500	UJ	3200	UJ	3400	U
4,6-dinitro-2-methylphenol	3500	UJ	3200	UJ	3400	UJ
4-bromophenyl phenyl ether	690	U	640	U	670	U
4-chloroaniline	690	U	640	U	670	U
4-chloro-3-methylphenol	690	U	640	U	670	U
4-methylphenol	690	U	640	U	670	U

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TABLE D-7B
(Continued)

Analyte	Result	Validation Qualifier	Result	Validation Qualifier	Result	Validation Qualifier
	Sample No. PS-48-001		Sample No. PS-48-014		Sample No. PS-48-027	
	Boring 48-01		Boring 48-02		Boring 48-03	
SEMICVOLATILE ORGANICS (µg/kg) (Continued)						
4-nitroaniline	3500	UJ	3200	UJ	3400	U
4-nitrophenol	3500	U	3200	U	3400	U
acenaphthene	690	UJ	640	UJ	670	U
acenaphthylene	690	U	640	U	670	U
anthracene			640	U	670	U
Benzoic acid	160	J	3200	R	3400	R
Benzo(a)anthracene	690	U	640	U	670	U
Benzo(a)pyrene	690	U	640	U	670	U
Benzo(b)fluoranthene	690	U	640	U	670	U
Benzo(g,h,i)perylene	690	UJ	640	UJ	670	U
Benzo(k)fluoranthene	690	U	640	U	670	U
Benzyl alcohol	690	U	640	U	670	U
Bis(2-chloroethoxy)methane	690	U	640	U	670	U
Bis(2-chloroethyl)ether	690	U	640	U	670	U
Bis(2-chloroisopropyl)ether	690	U	640	U	670	U
Bis(2-ethylhexyl)phthalate	690	UJ	640	UJ	230	J
Butyl benzyl phthalate	690	U	640	U	670	U
Chrysene	690	U	640	U	670	U
Dibenzofuran	690	UJ	640	UJ	670	U
Dibenzo(a,h)anthracene	690	UJ	640	UJ	670	U
Diethyl phthalate	690	UJ	640	UJ	670	U
Dimethyl phthalate	690	UJ	640	UJ	670	U
Di-n-butylphthalate	690	U	640	UJ	670	UJ
Di-n-octylphthalate	690	U	640	U	670	U
Fluoranthene	690	U	640	U	670	U
Fluorene	690	UJ	640	UJ	670	U
Hexachlorobenzene	690	UJ	640	UJ	670	U
Hexachlorobutadiene	690	U	640	U	670	U
Hexachlorocyclopentadiene	690	UJ	640	UJ	670	U

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TABLE D-7B
(Continued)

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Analyte	Result Sample No. PS-48-001 Boring 48-01	Validation Qualifier	Result Sample No. PS-48-014 Boring 48-02	Validation Qualifier	Result Sample No. PS-48-027 Boring 48-03	Validation Qualifier
	SEMIVOLATILE ORGANICS ($\mu\text{g}/\text{kg}$)		(Continued)			
Hexachloroethane	690	U	640	U	670	U
Indeno(1,2,3-cd)pyrene	690	UJ	640	UJ	670	U
Isophorone	690	U	640	U	670	U
Naphthalene	690	U	640	U	670	U
Nitrobenzene	690	U	640	U	670	U
N-nitrosodiphenylamine	690	U	640	U	670	U
N-nitroso-di-n-propylamine	690	U	640	U	670	U
Pentachlorophenol	3500	U	3200	U	3400	U
Phenanthrene	690	U	640	U	670	U
Phenol	89	J	640	U	670	U
Pyrene	690	U	640	U	670	R
VOLATILE ORGANICS ($\mu\text{g}/\text{kg}$)						
1,1,1-trichloroethane	310	U	310	U	270	U
1,1,2,2-tetrachloroethane	310	U	310	U	270	U
1,1,2-trichloroethane	310	U	310	U	270	U
1,1-dichloroethane	310	U	310	U	270	U
1,1-dichloroethene	310	U	310	U	270	U
1,2-dichloroethane	310	U	310	U	270	U
1,2-dichloropropane	310	U	310	U	270	U
1,3-dichloropropene	310	U	310	U	270	U
2-butanone	1800	J	610	R	530	R
2-chloroethyl vinyl ether	620	R	610	R	530	R
2-hexanone	620	U	610	U	530	U
4-methyl-2-pentanone	620	U	610	U	530	U
Acetone	620	R	610	UJ	530	UJ
Acrolein	ND	R	ND	R	ND	R
Benzene	310	U	310	U	270	U
Bromodichloromethane	310	U	310	U	270	U
Bromoform	310	U	310	U	270	U

TABLE D-7B
(Continued)

Analyte	Result Sample No. PS-48-001 Boring 48-01	Validation Qualifier		Result Sample No. PS-48-014 Boring 48-02	Validation Qualifier		Result Sample No. PS-48-027 Boring 48-03		
VOLATILE ORGANICS (µg/kg) (Continued)									
Bromomethane	620	UJ		610	UJ		530		
Carbon disulfide	310	U		310	U		270		
Carbon tetrachloride	310	U		310	U		270		
Chlorobenzene	310	U		310	U		270		
Chloroethane	620	U		610	U		530		
Chloroform	310	U		310	U		270		
Chloromethane	620	U		610	U		530		
Dibromochloromethane	310	U		310	U		270		
Ethylbenzene	310	U		310	U		270		
Methylene chloride	240	J		110	J		190		
Styrene	310	U		310	U		270		
Tetrachloroethene	310	U		310	U		270		
Toluene	310	U		310	U		270		
Total xylene	310	U		310	U		270		
Trans-1,2-dichloroethene	310	U		310	U		270		
Trichloroethene	310	U		310	U		270		
Vinyl acetate	620	U		610	U		530		
Vinyl chloride	620	U		610	U		530		

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-6173

2796

TABLE D-8

SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

5173

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER			
		SP-1 0-1 911122-005	SP-2 2-3 920323-085	SP-2 3-4 920323-086	SP-2 4-5 920323-087

TCLP Metals (mg/l):

Arsenic	5.00	<0.03	<0.500	<0.500	<0.500
Barium	100.00	0.40	0.409	0.589	0.609
Cadmium	1.00	<0.02	<0.010	<0.010	<0.010
Chromium	5.00	<0.24	<0.025	<0.025	<0.025
Lead	5.00	<0.08	<0.100	<0.100	<0.100
Mercury	0.20	<0.003	<0.0002	<0.0002	<0.0002
Selenium	1.00	<0.02	<0.500	<0.500	<0.500
Silver	5.00	<0.05	<0.020	<0.020	<0.020

Total Volatiles (mg/kg):

Acetone		<1.0	0.550 B	0.031 B
Benzene		<0.21	0.006 J	<0.005
2-Butanone		<0.63	0.008 BJ	<0.010
Carbon Disulfide		<0.30	<0.025	<0.005
Carbon Tetrachloride		<0.38	<0.025	<0.005
Chlorobenzene		<0.46	<0.025	<0.005
Chloroethane		NR	<0.050	<0.010
Chloromethane		NR	<0.050	<0.010
Chlorinated Fluorocarbons		BDL	NR	NR
Cyclohexanone		BDL	NR	NR
o-Dichlorobenzene		<0.58	NR	NR
1,1-Dichloroethene		NR	<0.025	<0.005
1,2-Dichloroethane		NR	<0.025	<0.005
trans-1,2-Dichloroethene		NR	<0.025	<0.005
Ethyl Acetate		BDL	NR	NR
Ethyl Benzene		<0.21	0.020 J	<0.005
Ethyl Ether		BDL	NR	NR
Methylene Chloride		<0.25	0.011 BJ	0.002 BJ
4-Methyl-2-Pentanone		<0.42	<0.050	<0.010
2-Nitropropane		BDL	NR	NR
Pyridine		BDL	NR	NR
Tetrachloroethylene		<1.2	<0.025	<0.005
Toluene		<0.42	<0.009	<0.005
Trichloroethene		<0.54	<0.025	<0.005
1,1,1-Trichloroethane		<0.50	0.006 J	<0.005
1,1,2-Trichloroethane		<0.25	<0.025	<0.005
Trichlorofluoromethane		<0.042	<0.050	<0.010
Trichlorotrifluoroethane		<0.042	NR	NR
Vinyl Chloride		NR	<0.050	<0.010
m,p-Xylenes		<0.25	NR	NR
o-Xylene		<0.17	NR	NR
Xylenes (Total)		NR	<0.150	<0.005

NR = Analysis not requested on this sample

0797

5178

TABLE D-8
(Continued)SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER			
		SP-1 0-1 911122-005	SP-2 2-3 920323-085	SP-2 3-4 920323-086	SP-2 4-5 920323-087
<u>TCLP Volatile Organics (mg/l):</u>					
Benzene	0.50	<0.090	<0.050	<0.050	<0.050
2-Butanone	200.00	<0.250	<0.100	42 J	<0.100
Carbon Tetrachloride	0.50	<0.150	<0.050	<0.050	<0.050
Chlorobenzene	100.00	<0.190	<0.050	<0.050	<0.050
Chloroform	6.00	<0.120	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	7.50	<0.350	NR	NR	NR
1,2-Dichloroethane	0.50	<0.100	<0.050	<0.050	<0.050
1,1-Dichlorethylene	0.70	<0.120	<0.050	<0.050	<0.050
Tetrachloroethylene	0.70	<0.500	<0.050	<0.050	<0.050
Trichloroethylene	0.50	<0.220	<0.050	<0.050	<0.050
Vinyl Chloride	0.20	<0.150	<0.100	<0.100	<0.100
<u>TCLP Semi Volatiles (mg/l):</u>					
m,p-Cresol	200.00	<0.04	<0.04	<0.04	<0.04
o-Cresol	200.00	<0.04	<0.04	<0.04	<0.04
1,4-Dichlorobenzene	7.50	NR	<0.04	<0.04	<0.04
2,4-Dinitrotoluene	0.13	<0.04	<0.04	<0.04	<0.04
Hexachlorobenzene	0.13	<0.04	<0.04	<0.04	<0.04
Hexachloroethane	3.00	<0.04	<0.04	<0.04	<0.04
Hexachloro-1,3-butadiene	0.50	<0.04	<0.04	<0.04	<0.04
Nitrobenzene	2.00	<0.04	<0.04	<0.04	<0.04
Pentachlorophenol	100.00	<0.04	<0.200	<0.200	<0.200
Pyridine	5.00	<0.08	<0.400	<0.400	<0.400
2,4,5-Trichlorophenol	400.00	<0.04	<0.04	<0.04	<0.04
2,4,6-Trichlorophenol	2.00	<0.04	<0.04	<0.04	<0.04
<u>TCLP Pesticides (mg/l):</u>					
Chlordane	0.030	<0.004	<0.0007	<0.0007	<0.0007
Endrin	0.020	<0.0004	<0.0003	<0.0003	<0.0003
Heptachlor	0.008	<0.0004	<0.00015	<0.00015	<0.00015
Heptachlor Epoxide	0.008	<0.0004	<0.00420	<0.00420	<0.00420
Lindane	0.400	<0.0004	<0.00020	<0.00020	<0.00020
Methoxychlor	10.000	<0.04	<0.00880	<0.00880	<0.00880
Toxaphene	0.500	<0.02	<0.00120	<0.00120	<0.00120
<u>TCLP Herbicides (mg/l):</u>					
2,4-D	10.00	<0.001	<0.0120	<0.0120	<0.0120
Silvex	1.00	<0.001	<0.0017	<0.0017	<0.0017

NR = Analysis not requested on this sample

0798

TABLE D-8
(Continued)

5173

SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER				
		SP-3	SP-3	SP-3	SP-3	SP-3
		0-1	1-2	2-3	3-4	4-5
		920323-088	920323-089	920323-090	920323-091	920323-092

TCLP Metals (mg/l):

Arsenic	5.00	<0.500	<0.050	<0.050	<0.050	<0.050
Barium	100.00	0.406	0.461	0.484	0.582	0.660
Cadmium	1.00	<0.010	<0.010	<0.010	<0.010	<0.010
Chromium	5.00	<0.025	<0.025	<0.025	<0.025	<0.025
Lead	5.00	<0.100	<0.100	<0.100	<0.100	<0.100
Mercury	0.20	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Selenium	1.00	<0.500	<0.500	<0.500	<0.500	<0.500
Silver	5.00	<0.020	<0.020	<0.020	<0.020	<0.020

Total Volatiles (mg/kg):

Acetone		0.013 B	0.008 BJ	0.011 B	0.015 B
Benzene		<0.005	<0.005	<0.005	<0.005
2-Butanone		<0.010	<0.010	<0.010	0.001 J
Carbon Disulfide		<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride		<0.005	<0.005	<0.005	<0.005
Chlorobenzene		<0.005	<0.005	<0.005	<0.005
Chloroethane		<0.010	<0.010	<0.010	<0.010
Chloromethane		<0.010	<0.010	<0.010	<0.010
Chlorinated Fluorocarbons		NR	NR	NR	NR
Cyclohexanone		NR	NR	NR	NR
o-Dichlorobenzene		NR	NR	NR	NR
1,1-Dichloroethene		<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane		<0.005	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene		<0.005	<0.005	<0.005	<0.005
Ethyl Acetate		NR	NR	NR	NR
Ethyl Ether		NR	NR	NR	NR
Ethyl Benzene		<0.005	<0.005	<0.005	<0.005
Methylene Chloride		0.001 BJ	0.001 BJ	0.001 BJ	0.002 BJ
4-Methyl-2-Pentanone		<0.010	<0.010	<0.010	<0.010
2-Nitropropane		NR	NR	NR	NR
Pyridine		NR	NR	NR	NR
Tetrachloroethylene		<0.005	<0.005	<0.005	<0.005
Toluene		<0.005	<0.005	<0.005	<0.005
Trichloroethene		<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane		<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		<0.005	<0.005	<0.005	<0.005
Trichlorofluromethane		<0.010	<0.010	<0.010	<0.010
Trichlorotrifluoroethane		NR	NR	NR	NR
Vinyl Chloride		<0.010	<0.010	<0.010	<0.010
m,p-Xylenes		NR	NR	NR	NR
o-Xylene		NR	NR	NR	NR
Xylenes (Total)		<0.005	<0.005	<0.005	<0.005

NR = Analysis not requested on this sample

0799

5178

TABLE D-8
(Continued)

SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER				
		SP-3	SP-3	SP-3	SP-3	SP-3
		0-1	1-2	2-3	3-4	4-5
		920323-088	920323-089	920323-090	920323-091	920323-092
TCLP Volatile Organics (mg/l):						
Benzene	0.50	<0.050	<0.050	<0.050	<0.050	<0.050
2-Butanone	200.00	<0.100	<0.100	<0.100	<0.100	<0.100
Carbon Tetrachloride	0.50	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	100.00	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	6.00	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	7.50	NR	NR	NR	NR	NR
1,2-Dichloroethane	0.50	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichlorethylene	0.70	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	0.70	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	0.50	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	0.20	<0.100	<0.100	<0.100	<0.100	<0.100
TCLP Semi Volatiles (mg/l):						
m,p-Cresol	200.00	<0.04	<0.04	<0.04	<0.04	<0.04
o-Cresol	200.00	<0.04	<0.04	<0.04	<0.04	<0.04
1,4-Dichlorobenzene	7.50	<0.04	<0.04	<0.04	<0.04	<0.04
2,4-Dinitrotoluene	0.13	<0.04	<0.04	<0.04	<0.04	<0.04
Hexachlorobenzene	0.13	<0.04	<0.04	<0.04	<0.04	<0.04
Hexachloroethane	3.00	<0.04	<0.04	<0.04	<0.04	<0.04
Hexachloro-1,3-butadiene	0.50	<0.04	<0.04	<0.04	<0.04	<0.04
Nitrobenzene	2.00	<0.04	<0.04	<0.04	<0.04	<0.04
Pentachlorophenol	100.00	<0.200	<0.200	<0.200	<0.200	<0.200
Pyridine	5.00	<0.400	<0.400	<0.400	<0.400	<0.400
2,4,5-Trichlorophenol	400.00	<0.04	<0.04	<0.04	<0.04	<0.04
2,4,6-Trichlorophenol	2.00	<0.04	<0.04	<0.04	<0.04	<0.04
TCLP Pesticides (mg/l):						
Chlordane	0.030	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070
Endrin	0.020	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Heptachlor	0.008	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015
Heptachlor Epoxide	0.008	<0.00420	<0.00420	<0.00420	<0.00420	<0.00420
Lindane	0.400	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Methoxychlor	10.000	<0.00880	<0.00880	<0.00880	<0.00880	<0.00880
Toxaphene	0.500	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120
TCLP Herbicides (mg/l):						
2,4-D	10.00	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120
Silvex	1.00	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017

NR = Analysis not requested on this sample

0800

TABLE D-8
(Continued)SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LINE SLUDGE POND

5178

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER
		SP-3-1
		0-1
		911114-039

TCLP Metals (mg/l):

Arsenic	5.00	<0.2
Barium	100.00	0.518
Cadmium	1.00	<0.1
Chromium	5.00	<0.5
Lead	5.00	0.266
Mercury	0.20	<0.0002
Selenium	1.00	<0.374
Silver	5.00	<0.050

Total Volatiles (mg/kg):

Acetone	<0.0186
Benzene	<0.0093
2-Butanone	<0.0186
Carbon Disulfide	<0.0093
Carbon Tetrachloride	<0.0093
Chlorobenzene	<0.0093
Chloroethane	NR
Chloromethane	NR
Chlorinated Fluorocarbons	NR
Cyclohexanone	<0.298
o-Dichlorobenzene	NR
1,1-Dichloroethene	NR
1,2-Dichloroethane	NR
trans-1,2-Dichloroethene	NR
Ethyl Acetate	<0.0372
Ethyl Benzene	<0.0093
Ethyl Ether	<0.0093
Methylene Chloride	<0.0093
Methyl Isobutyl Ketone	<0.0186
2-Nitropropane	<0.130
Pyridine	NR
Tetrachloroethylene	<0.0093
Toluene	<0.0093
Trichloroethene	<0.0093
1,1,1-Trichloroethane	<0.0093
1,1,2-Trichloroethane	<0.0093
Trichlorofluoromethane	<0.0093
Trichlorotrifluoroethane	<0.0093
Vinyl Chloride	NR
m,p-Xylenes	NR
o-Xylene	NR
Xylenes (Total)	<0.0093

NR = Analysis not requested on this sample

0801

TABLE D-8
(Continued)

5178

SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER
		SP-3-1 0-1 911114-039

TCLP Volatile Organics (mg/l):

Benzene	0.50	<0.025
2-Butanone	200.00	<0.050
Carbon Tetrachloride	0.50	<0.025
Chlorobenzene	100.00	<0.025
Chloroform	6.00	<0.025
1,4-Dichlorobenzene	7.50	NR
1,2-Dichloroethane	0.50	<0.025
1,1-Dichlorethylene	0.70	<0.025
Tetrachloroethylene	0.70	<0.025
Trichloroethylene	0.50	<0.025
Vinyl Chloride	0.20	<0.050

TCLP Semi Volatiles (mg/l):

m,p-Cresol	200.00	<0.020
o-Cresol	200.00	<0.020
1,4-Dichlorobenzene	7.50	<0.020
2,4-Dinitrotoluene	0.13	<0.020
Hexachlorobenzene	0.13	<0.020
Hexachloroethane	3.00	<0.020
Hexachloro-1,3-butadiene	0.50	<0.020
Nitrobenzene	2.00	<0.020
Pentachlorophenol	100.00	<0.100
Pyridine	5.00	<0.020
2,4,5-Trichlorophenol	400.00	<0.020
2,4,6-Trichlorophenol	2.00	<0.020

TCLP Pesticides (mg/l):

Chlordane	0.030	<0.0001
Endrin	0.020	<0.0001
Heptachlor	0.008	<0.00005
Heptachlor Epoxide	0.008	<0.00005
Lindane	0.400	<0.00005
Methoxychlor	10.000	<0.0005
Toxaphene	0.500	<0.001

TCLP Herbicides (mg/l):

2,4-D	10.00	<0.001
Silvex	1.00	<0.0005

NR = Analysis not requested on this sample

0802

TABLE D-8
(Continued)SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

5173

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER				
		SP-4 0-1 920323-093	SP-4 1-2 920323-094	SP-4 2-3 920323-095	SP-4 3-4 920323-096	SP-4 6-7 920323-097
<u>TCLP Metals (mg/l):</u>						
Arsenic	5.00	<0.500	<0.500	<0.500	<0.500	<0.050
Barium	100.00	0.482	0.384	0.554	0.999	0.427
Cadmium	1.00	<0.010	<0.010	<0.010	<0.010	<0.010
Chromium	5.00	<0.025	<0.025	<0.025	<0.025	<0.025
Lead	5.00	<0.100	<0.100	<0.100	<0.100	<0.100
Mercury	0.20	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Selenium	1.00	<0.500	<0.500	<0.500	<0.500	<0.500
Silver	5.00	<0.020	<0.020	<0.020	<0.020	<0.020
<u>Total Volatiles (mg/kg):</u>						
Acetone		0.011 BJ	0.009 BJ	0.010 BJ	0.008 BJ	0.009 BJ
Benzene		<0.005	<0.005	<0.005	<0.005	<0.005
2-Butanone		<0.010	<0.010	<0.010	<0.010	<0.010
Carbon Disulfide		<0.005	<0.005	<0.005	<0.005	<0.005
Carbon Tetrachloride		<0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene		<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane		<0.010	<0.010	<0.010	<0.010	<0.010
Chloromethane		<0.010	<0.010	<0.010	<0.010	<0.010
Chlorinated Fluorocarbons		NR	NR	NR	NR	NR
Cyclohexanone		NR	NR	NR	NR	NR
o-Dichlorobenzene		NR	NR	NR	NR	NR
1,1-Dichloroethene		<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene		<0.005	<0.005	<0.005	<0.005	<0.005
Ethyl Acetate		NR	NR	NR	NR	NR
Ethyl Benzene		<0.005	<0.005	<0.005	<0.005	<0.005
Ethyl Ether		NR	NR	NR	NR	NR
Methylene Chloride		0.001 BJ	0.011 BJ	0.001 BJ	0.001 BJ	0.001 BJ
Methyl-2-Pentanone		<0.010	<0.010	<0.010	<0.010	<0.010
2-Nitropropane		NR	NR	NR	NR	NR
Pyridine		NR	NR	NR	NR	NR
Tetrachloroethylene		<0.005	<0.005	<0.005	<0.005	<0.005
Toluene		<0.005	<0.010	<0.005	<0.005	<0.005
Trichloroethene		<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane		<0.005	<0.005	<0.005	<0.005	<0.005
Trichlorofluoromethane		<0.010	<0.010	<0.010	<0.010	<0.010
Trichlorotrifluoroethane		NR	NR	NR	NR	NR
Vinyl Chloride		<0.010	<0.010	<0.010	<0.010	<0.010
m,p-Xylenes		NR	NR	NR	NR	NR
o-Xylene		NR	NR	NR	NR	NR
Xylenes (Total)		<0.005	<0.005	<0.005	<0.005	<0.005

NR = Analysis not requested on this sample

0803

TABLE D-8
(Continued)

5178

SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER				
		SP-4 0-1 920323-093	SP-4 1-2 920323-094	SP-4 2-3 920323-095	SP-4 3-4 920323-096	SP-4 6-7 920323-097
TCLP Volatile Organics (mg/l):						
Benzene	0.50	<0.050	<0.050	<0.050	<0.050	<0.050
2-Butanone	200.00	<0.100	<0.100	<0.100	<0.100	<0.100
Carbon Tetrachloride	0.50	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	100.00	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	6.00	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	7.50	NR	NR	NR	NR	NR
1,2-Dichloroethane	0.50	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichlorethylene	0.70	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	0.70	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	0.50	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	0.20	<0.100	<0.100	<0.100	<0.100	<0.100
TCLP Semi Volatiles (mg/l):						
m,p-Cresol	200.00	<0.04	<0.04	<0.04	<0.04	<0.04
o-Cresol	200.00	<0.04	<0.04	<0.04	<0.04	<0.04
1,4-Dichlorobenzene	7.50	<0.04	<0.04	<0.04	<0.04	<0.04
2,4-Dinitrotoluene	0.13	<0.04	<0.04	<0.04	<0.04	<0.04
Hexachlorobenzene	0.13	<0.04	<0.04	<0.04	<0.04	<0.04
Hexachloroethane	3.00	<0.04	<0.04	<0.04	<0.04	<0.04
Hexachloro-1,3-butadiene	0.50	<0.04	<0.04	<0.04	<0.04	<0.04
Nitrobenzene	2.00	<0.04	<0.04	<0.04	<0.04	<0.04
Pentachlorophenol	100.00	<0.20	<0.20	<0.20	<0.20	<0.20
Pyridine	5.00	<0.40	<0.40	<0.40	<0.40	<0.40
2,4,5-Trichlorophenol	400.00	<0.04	<0.04	<0.04	<0.04	<0.04
2,4,6-Trichlorophenol	2.00	<0.04	<0.04	<0.04	<0.04	<0.04
TCLP Pesticides (mg/l):						
Chlordane	0.030	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070
Endrin	0.020	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Heptachlor	0.008	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015
Heptachlor Epoxide	0.008	<0.00420	<0.00420	<0.00420	<0.00420	<0.00420
Lindane	0.400	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Methoxychlor	10.000	<0.00880	<0.00880	<0.00880	<0.00880	<0.00880
Toxaphene	0.500	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120
TCLP Herbicides (mg/l):						
2,4-D	10.00	<0.0120	<0.0120	<0.0120	<0.0120	<0.0120
Silvex	1.00	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017

NR = Analysis not requested on this sample

0864

TABLE D-8
(Continued)SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

28173

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER				
		SP-10-1	SP-10-2	SP-10-2A	SP-10-3	SP-10-4
		0-1	1-2	1-2	2-3	3-4
		920407-192	920407-193	920407-195	920407-195	920407-196

TCLP Metals (mg/l):

Arsenic	5.00	<0.06	<0.06	<0.06	<0.06	<0.06
Barium	100.00	0.54	0.48	0.54	<0.20	1.17
Cadmium	1.00	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	5.00	<0.24	<0.24	<0.24	<0.24	<0.24
Lead	5.00	<0.08	<0.08	<0.08	0.41	<0.08
Mercury	0.20	<0.003	<0.003	<0.003	<0.003	0.004
Selenium	1.00	<0.04	<0.04	<0.04	<0.04	<0.04
Silver	5.00	<0.05	<0.05	<0.05	<0.05	<0.05

Total Volatiles (mg/kg):

Acetone		<1.0	<1.0	<1.0	<1.0	<1.0
Benzene		<0.21	<0.21	<0.21	<0.21	<0.21
2-Butanone		<0.62	<0.62	<0.62	<0.62	<0.62
Carbon Disulfide		<0.29	<0.29	<0.29	<0.29	<0.29
Carbon Tetrachloride		<0.38	<0.58	<0.38	<0.38	<0.38
Chlorobenzene		<0.46	<0.46	<0.46	<0.46	<0.46
Chloroethane		NR	NR	NR	NR	NR
Chloromethane		NR	NR	NR	NR	NR
Chlorinated Fluorocarbons		BDL	BDL	BDL	BDL	BDL
Cyclohexanone		BDL	BDL	BDL	BDL	BDL
o-Dichlorobenzene		<0.58	<0.58	<0.58	<0.58	<0.58
1,1-Dichloroethene		NR	NR	NR	NR	NR
1,2-Dichloroethane		NR	NR	NR	NR	NR
trans-1,2-Dichloroethylene		NR	NR	NR	NR	NR
Ethyl Acetate		BDL	BDL	BDL	BDL	BDL
Ethyl Benzene		<0.21	<0.21	<0.21	<0.21	<0.21
Ethyl Ether		BDL	BDL	BDL	BDL	BDL
Methylene Chloride		<0.25	<0.25	<0.25	<0.25	<0.25
4-Methyl-2-Pentanone		<0.42	<0.42	<0.42	<0.42	<0.42
2-Nitropropane		BDL	BDL	BDL	BDL	BDL
Pyridine		BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene		<1.20	<1.20	<1.20	<1.20	<1.20
Toluene		<0.42	<0.42	<0.42	<0.42	<0.42
Trichloroethene		<0.54	<0.54	<0.54	<0.54	<0.54
1,1,1-Trichloroethane		<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane		<0.25	<0.25	<0.25	<0.25	<0.25
Trichlorofluoromethane		<0.42	<0.42	<0.42	<0.42	<0.42
Trichlorotrifluoroethane		<0.42	<0.42	<0.42	<0.42	<0.42
Vinyl Chloride		NR	NR	NR	NR	NR
m,p-Xylenes		<0.25	<0.25	<0.25	<0.25	<0.25
o-Xylene		<0.17	<0.17	<0.17	<0.17	<0.17
Xylenes (Total)		NR	NR	NR	NR	NR

NR = Analysis not requested on this sample

0305

5178

TABLE D-8
(Continued)SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER					
		SP-10-1	SP-10-2	SP-10-2A	SP-10-3	SP-10-4	
		0-1	1-2	1-2	2-3	3-4	
		920407-192	920407-193	920407-194	920407-195	920407-196	
<u>TCLP Volatile Organics (mg/l):</u>							
Benzene	0.50	<0.09	<0.09	<0.09	<0.09	<0.09	
2-Butanone	200.00	<0.25	<0.25	<0.25	<0.25	<0.25	
Carbon Tetrachloride	0.50	<0.15	<0.15	<0.15	<0.15	<0.15	
Chlorobenzene	100.00	<0.19	<0.19	<0.19	<0.19	<0.19	
Chloroform	6.00	<0.12	<0.12	<0.12	<0.12	<0.12	
1,4-Dichlorobenzene	7.50	<0.35	<0.35	<0.35	<0.35	<0.35	
1,2-Dichloroethane	0.50	<0.10	<0.10	<0.10	<0.10	<0.10	
1,1-Dichloroethylene	0.70	<0.12	<0.12	<0.12	<0.12	<0.12	
Tetrachloroethylene	0.70	<0.50	<0.50	<0.50	<0.50	<0.50	
Trichloroethylene	0.50	<0.22	<0.22	<0.22	<0.22	<0.22	
Vinyl Chloride	0.20	<0.15	<0.15	<0.15	<0.15	<0.15	
<u>TCLP Semi Volatiles (mg/l):</u>							
m,p-Cresol	200.00	<0.04	<0.04	<0.04	<0.04	<0.04	
o-Cresol	200.00	<0.04	<0.04	<0.04	<0.04	<0.04	
1,4-Dichlorobenzene	7.50	NR	NR	NR	NR	NR	
2,4-Dinitrotoluene	0.13	<0.04	<0.04	<0.04	<0.04	<0.04	
Hexachlorobenzene	0.13	<0.04	<0.04	<0.04	<0.04	<0.04	
Hexachloroethane	3.00	<0.04	<0.04	<0.04	<0.04	<0.04	
Hexachloro-1,3-butadiene	0.50	<0.04	<0.04	<0.04	<0.04	<0.04	
Nitrobenzene	2.00	<0.04	<0.04	<0.04	<0.04	<0.04	
Pentachlorophenol	100.00	<0.04	<0.04	<0.04	<0.04	<0.04	
Pyridine	5.00	<0.08	<0.08	<0.08	<0.08	<0.08	
2,4,6-Trichlorophenol	0.50	<0.04	<0.04	<0.04	<0.04	<0.04	
2,4,5-Trichlorophenol	2.00	<0.04	<0.04	<0.04	<0.04	<0.04	
<u>TCLP Pesticides (mg/l):</u>							
Chlordane	0.030	<0.004	<0.004	<0.004	<0.004	<0.004	
Endrin	0.020	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	
Heptachlor	0.008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	
Heptachlor Epoxide	0.008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	
Lindane	0.400	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	
Methoxychlor	10.000	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	
Toxaphene	0.500	<0.02	<0.02	<0.02	<0.02	<0.02	
<u>TCLP Herbicides (mg/l):</u>							
2,4-D	10.00	<0.001	<0.001	<0.001	<0.001	<0.001	
Silvex	1.00	<0.001	<0.001	<0.001	<0.001	<0.001	

0366

TABLE D-8

(Continued)

SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

5178

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER		
		SP-11	SP-14	SP-14
	0-7	0-10	0-10	
	920211-237	920211-239	920211-236	

TCLP Metals (mg/l):

Arsenic	5.00	<0.200	<0.200	<0.200
Barium	100.00	0.421	0.453	0.415
Cadmium	1.00	<0.100	<0.100	<0.100
Chromium	5.00	<0.500	<0.500	<0.500
Lead	5.00	0.209	0.245	0.228
Mercury	0.20	<0.0002	<0.0002	<0.0002
Selenium	1.00	<0.557	<0.557	<0.557
Silver	5.00	<0.050	<0.050	<0.050

Total Volatiles (mg/kg):

Acetone		<0.0222	<0.0217	0.043
Benzene		<0.0111	<0.0109	<0.0118
2-Butanone		<0.0222	<0.0217	<0.0236
Carbon Disulfide		<0.0111	<0.0109	<0.0118
Carbon Tetrachloride		<0.0111	<0.0109	<0.0118
Chlorobenzene		<0.0111	<0.0109	<0.0118
Chloroethane		NR	NR	NR
Chloromethane		NR	NR	NR
Chlorinated Fluorocarbons		NR	NR	NR
Cyclohexanone		<0.3548	<0.3478	<0.378
o-Dichlorobenzene		NR	NR	NR
1,1-Dichloroethene		NR	NR	NR
1,2-Dichloroethane		NR	NR	NR
trans-1,2-Dichloroethylene		NR	NR	NR
Ethyl Acetate		<0.0443	<0.0435	<0.0473
Ethyl Benzene		<0.0111	<0.0109	<0.0118
Ethyl Ether		<0.0111	<0.0109	<0.0118
Methylene Chloride		<0.0111	<0.0109	<0.0118
4-Methyl-2-Pentanone		<0.0222	<0.0217	<0.0236
2-Nitropropane		<0.1552	<0.1522	<0.1655
Pyridine		NR	NR	NR
Tetrachloroethylene		<0.0111	<0.0109	<0.0118
Toluene		<0.0111	<0.0109	0.0201
Trichloroethene		<0.0111	<0.0109	<0.0118
1,1,1-Trichloroethane		<0.0111	<0.0109	<0.0118
1,1,2-Trichloroethane		<0.0111	<0.0109	<0.0118
Trichlorofluoromethane		<0.0111	<0.0109	<0.0118
Trichlorotrifluoroethylene		<0.0111	<0.0109	<0.0118
Vinyl Chloride		NR	NR	NR
m,p-Xylenes		NR	NR	NR
o-Xylene		NR	NR	NR
Xylenes (Total)		<0.0111	<0.0109	<0.0118

NR = Analysis not requested on this sample

0367

5178

TABLE D-8
(Continued)

SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER		
		SP-11 0-7 920211-237	SP-14 0-10 920211-239	SP-14 0-10 920211-236

TCLP Volatile Organics (mg/l):

Benzene	0.50	<0.025	<0.025	<0.025
2-Butanone	200.00	<0.050	<0.050	<0.050
Carbon Tetrachloride	0.50	<0.025	<0.025	<0.025
Chlorobenzene	100.00	<0.025	<0.025	<0.025
Chloroform	6.00	<0.025	<0.025	<0.025
1,4-Dichlorobenzene	7.50	NR	NR	NR
1,2-Dichloroethane	0.50	<0.025	<0.025	<0.025
1,1-Dichlorethylene	0.70	<0.025	<0.025	<0.025
Tetrachloroethylene	0.70	<0.025	<0.025	<0.025
Trichloroethylene	0.50	<0.025	<0.025	<0.025
Vinyl Chloride	0.20	<0.050	<0.050	<0.050

TCLP Semi Volatiles (mg/l):

m,p-Cresol	200.00	<0.020	<0.020	<0.020
o-Cresol	200.00	<0.020	<0.020	<0.020
1,4-Dichlorobenzene	7.50	<0.020	<0.020	<0.020
2,4-Dinitrotoluene	0.13	<0.020	<0.020	<0.020
Hexachlorobenzene	0.13	<0.020	<0.020	<0.020
Hexachloroethane	3.00	<0.020	<0.020	<0.020
Hexachloro-1,3-butadiene	0.50	<0.020	<0.020	<0.020
Nitrobenzene	2.00	<0.020	<0.020	<0.020
Pentachlorophenol	100.00	<0.100	<0.100	<0.100
Pyridine	5.00	<0.020	<0.020	<0.020
2,4,5-Trichlorophenol	400.00	<0.020	<0.020	<0.020
2,4,6-Trichlorophenol	2.00	<0.020	<0.020	<0.020

TCLP Pesticides (mg/l):

Chlordane	0.030	<0.0001	<0.001	<0.0001
Endrin	0.020	<0.0001	<0.001	<0.0001
Heptachlor	0.008	<0.00005	<0.00005	<0.00005
Heptachlor Epoxide	0.008	<0.00005	<0.00005	<0.00005
Lindane	0.400	<0.00005	<0.00005	<0.00005
Methoxychlor	10.000	<0.005	<0.005	<0.0005
Toxaphene	0.500	<0.001	<0.001	<0.001

TCLP Herbicides (mg/l):

2,4-D	10.00	<0.001	<0.001	<0.001
Silvex	1.00	<0.0005	<0.0005	<0.0005

NR = Analysis not requested on this sample

0808

TABLE D-8
(Continued)**-5173**SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LINE SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER					
		SP-INF-1 0-1 920319-052	SP-INF-1 1-2 920319-053	SP-INF-1 2-3 920319-054	SP-INF-1 3-4 920319-055	SP-INF-1 4-5 920319-056	SP-INF-1 5-6 920319-057
TCLP Metals (mg/l):							
Arsenic	5.00	<0.200	<0.200	<0.200	<0.200	<0.200	0.358
Barium	100.00	0.749	0.822	0.885	0.922	0.801	0.826
Cadmium	1.00	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chromium	5.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Lead	5.00	<0.200	<0.200	<0.200	<0.200	<0.200	0.309
Mercury	0.20	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Selenium	1.00	<0.327	<0.327	<0.327	<0.327	<0.327	<0.327
Silver	5.00	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Volatiles (mg/kg):							
Acetone	0.675	0.0652	0.277	<0.0204	<0.0198	<0.0211	
Benzene	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
2-Butanone	<0.0992	<0.0204	<0.0196	<0.0204	<0.0198	<0.0211	
Carbon Disulfide	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
Carbon Tetrachloride	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
Chlorobenzene	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
Chloroethane	NR	NR	NR	NR	NR	NR	
Chloromethane	NR	NR	NR	NR	NR	NR	
Chlorinated Fluorocarbons	NR	NR	NR	NR	NR	NR	
Cyclohexanone	<1.587	<0.327	<0.314	<0.327	<0.316	<0.338	
o-Dichlorobenzene	NR	NR	NR	NR	NR	NR	
1,1-Dichloroethene	NR	NR	NR	NR	NR	NR	
1,2-Dichloroethane	NR	NR	NR	NR	NR	NR	
trans-1,2-Dichloroethylene	NR	NR	NR	NR	NR	NR	
Ethyl Acetate	<0.198	<0.0409	<0.0392	<0.0408	<0.0395	<0.0422	
Ethyl Benzene	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
Ethyl Ether	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
Methylene Chloride	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
4-Methyl-2-Pentanone	<0.0992	<0.0204	<0.0196	<0.0204	<0.0198	<0.0211	
2-Nitropropane	<0.694	<0.143	<0.137	<0.143	<0.138	<0.148	
Pyridine	NR	NR	NR	NR	NR	NR	
Tetrachloroethylene	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
Toluene	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
Trichloroethene	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
1,1,1-Trichloroethane	<0.0496	<0.0102	<0.0098	<0.0102	0.0233	<0.0105	
1,1,2-Trichloroethane	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
Trichlorofluoromethane	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
Trichlorotrifluoroethane	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	
Vinyl Chloride	NR	NR	NR	NR	NR	NR	
m,p-Xylenes	NR	NR	NR	NR	NR	NR	
o-Xylene	NR	NR	NR	NR	NR	NR	
Xylenes (Total)	<0.0496	<0.0102	<0.0098	<0.0102	<0.0099	<0.0105	

NR = Analysis not requested on this sample

0309

5173

TABLE D-8
(Continued)SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER					
		SP-INF-1	SP-INF-1	SP-INF-1	SP-INF-1	SP-INF-1	SP-INF-1
		0-1	1-2	2-3	3-4	4-5	5-6
		920319-052	920319-053	920319-054	920319-055	920319-056	920319-057
TCLP Volatile Organics (mg/l):							
Benzene	0.50	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2-Butanone	200.00	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon Tetrachloride	0.50	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chlorobenzene	100.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chloroform	6.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,4-Dichlorobenzene	7.50	NR	NR	NR	NR	NR	NR
1,2-Dichloroethane	0.50	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,1-Dichlorethylene	0.70	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrachloroethylene	0.70	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Trichloroethylene	0.50	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Vinyl Chloride	0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
TCLP Semi Volatiles (mg/l):							
m,p-Cresol	200.00	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
o-Cresol	200.00	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,4-Dichlorobenzene	7.50	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
2,4-Dinitrotoluene	0.13	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachlorobenzene	0.13	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachloroethane	3.00	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachloro-1,3-butadiene	0.50	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Nitrobenzene	2.00	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Pentachlorophenol	100.00	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Pyridine	5.00	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
2,4,5-Trichlorophenol	400.00	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
2,4,6-Trichlorophenol	2.00	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TCLP Pesticides (mg/l):							
Chlordane	0.030	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Endrin	0.020	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Heptachlor	0.008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor Epoxide	0.008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Lindane	0.400	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	10.000	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.500	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TCLP Herbicides (mg/l):							
2,4-D	10.00	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silvex	1.00	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

NR = Analysis not requested on this sample

0310

TABLE D-8
(Continued)SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

5173

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER		
		SP-INF-2	SP-INF-2	SP-INF-2
		0-1	1-2	1-2
		920319-058	920319-059	920319-060

TCLP Metals (mg/l):

Arsenic	5.00	0.262	0.292	0.251
Barium	100.00	0.771	0.772	0.780
Cadmium	1.00	<0.100	<0.100	<0.100
Chromium	5.00	<0.500	<0.500	<0.500
Lead	5.00	0.207	0.221	0.230
Mercury	0.20	<0.0002	<0.0002	<0.0002
Selenium	1.00	<0.327	<0.327	<0.327
Silver	5.00	<0.050	<0.050	<0.050

Total Volatiles (mg/kg):

Acetone		<0.0185	<0.0194	<0.0188
Benzene		<0.0092	<0.0097	<0.0094
2-Butanone		<0.0185	<0.0194	<0.0188
Carbon Disulfide		<0.0092	<0.0097	<0.0094
Carbon Tetrachloride		<0.0092	<0.0097	<0.0094
Chlorobenzene		<0.0092	<0.0097	<0.0094
Chloroethane		NR	NR	NR
Chloromethane		NR	NR	NR
Cyclohexanone		<0.295	<0.310	<0.301
o-Dichlorobenzene		NR	NR	NR
1,1-Dichloroethene		NR	NR	NR
1,2-Dichloroethane		NR	NR	NR
trans-1,2-Dichloroethene		NR	NR	NR
Ethyl Acetate		<0.0369	<0.0388	<0.0376
Ethyl Benzene		<0.0092	<0.0097	<0.0094
Ethyl Ether		<0.0092	<0.0097	<0.0094
Methylene Chloride		<0.0092	<0.0097	<0.0094
4-Methyl-2-Pentanone		<0.0185	<0.0194	<0.01888
2-Nitropropane		<0.129	<0.136	<0.132
Pyridine		NR	NR	NR
Tetrachloroethylene		<0.0092	<0.0097	<0.0094
Toluene		<0.0092	<0.0097	<0.0094
Trichloroethene		<0.0092	<0.0097	<0.0094
1,1,1-Trichloroethane		<0.0092	<0.0097	<0.0094
1,1,2-Trichloroethane		<0.0092	<0.0097	<0.0094
Trichlorofluoromethane		<0.0092	<0.0097	<0.0094
Trichlorotrifluoroethane		<0.0092	<0.0097	<0.0094
Vinyl Chloride		NR	NR	NR
m,p-Xylenes		NR	NR	NR
o-Xylene		NR	NR	NR
Xylenes (Total)		<0.0092	<0.0097	<0.0094

NR = Analysis not requested on this sample

0811

-5173

TABLE D-8
(Continued)

SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER		
		SP-INF-2	SP-INF-2	SP-INF-2
		0-1	1-2	1-2
		920319-058	920319-059	920319-060

TCLP Volatile Organics (mg/l):

Benzene	0.50	<0.025	<0.025	<0.025
2-Butanone	200.00	<0.050	<0.050	<0.050
Carbon Tetrachloride	0.50	<0.025	<0.025	<0.025
Chlorobenzene	100.00	<0.025	<0.025	<0.025
Chloroform	6.00	<0.025	<0.025	<0.025
1,4-Dichlorobenzene	7.50	NR	NR	NR
1,2-Dichloroethane	0.50	<0.025	<0.025	<0.025
1,1-Dichlorethylene	0.70	<0.025	<0.025	<0.025
Tetrachloroethylene	0.70	<0.025	<0.025	<0.025
Trichloroethylene	0.50	<0.025	<0.025	<0.025
Vinyl Chloride	0.20	<0.050	<0.050	<0.050

TCLP Semi Volatiles (mg/l):

m,p-Cresol	200.00	<0.020	<0.020	<0.020
o-Cresol	200.00	<0.020	<0.020	<0.020
1,4-Dichlorobenzene	7.50	<0.020	<0.020	<0.020
2,4-Dinitrotoluene	0.13	<0.020	<0.020	<0.020
Hexachlorobenzene	0.13	<0.020	<0.020	<0.020
Hexachloroethane	3.00	<0.020	<0.020	<0.020
Hexachloro-1,3-butadiene	0.50	<0.020	<0.020	<0.020
Nitrobenzene	2.00	<0.020	<0.020	<0.020
Pentachlorophenol	100.00	<0.100	<0.100	<0.100
Pyridine	5.00	<0.020	<0.020	<0.020
2,4,5-Trichlorophenol	400.00	<0.020	<0.020	<0.020
2,4,6-Trichlorophenol	2.00	<0.020	<0.020	<0.020

TCLP Pesticides (mg/l):

Chlordane	0.030	<0.0001	<0.0001	<0.0001
Endrin	0.020	<0.0001	<0.0001	<0.0001
Heptachlor	0.008	<0.00005	<0.00005	<0.00005
Heptachlor Epoxide	0.008	<0.00005	<0.00005	<0.00005
Lindane	0.400	<0.00005	<0.00005	<0.00005
Methoxychlor	10.000	<0.0005	<0.0005	<0.0005
Toxaphene	0.500	<0.001	<0.001	<0.001

TCLP Herbicides (mg/l):

2,4-D	10.00	<0.001	<0.001	<0.001
Silvex	1.00	<0.0005	<0.0005	<0.0005

NR = Analysis not requested on this sample

0312

TABLE D-8
(Continued)

SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND

-3173

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER		
		SP-EF-1-1 0-3 920407-198	SP-EF-2-1 0-3 920407-197	SP-EF-3-1 0-1 920407-199

TCLP Metals (mg/l):

Arsenic	5.00	<0.06	<0.06	<0.06
Barium	100.00	1.04	0.98	0.73
Cadmium	1.00	<0.02	<0.02	<0.02
Chromium	5.00	<0.24	<0.24	<0.24
Lead	5.00	<0.08	<0.08	<0.08
Mercury	0.20	<0.003	<0.003	<0.003
Selenium	1.00	<0.04	<0.04	<0.04
Silver	5.00	<0.05	<0.05	<0.05

Total Volatiles (mg/kg):

Acetone		<1.0	<1.0	<1.0
Benzene		<0.21	<0.21	<0.21
2-Butanone		<0.62	<0.62	<0.62
Carbon Disulfide		<0.29	<0.29	<0.29
Carbon Tetrachloride		<0.38	<0.38	<0.38
Chlorobenzene		<0.46	<0.46	<0.46
Chloroethane		NR	NR	NR
Chloromethane		NR	NR	NR
Chlorinated Fluorocarbons		BDL	BDL	BDL
Cyclohexanone		BDL	BDL	BDL
o-Dichlorobenzene		<0.58	<0.58	<0.58
1,1-Dichloroethene		NR	NR	NR
1,2-Dichloroethane		NR	NR	NR
trans-1,2-Dichloroethene		NR	NR	NR
Ethyl Acetate		BDL	BDL	BDL
Ethyl Benzene		<0.21	<0.21	<0.21
Ethyl Ether		BDL	BDL	BDL
Methylene Chloride		<0.25	<0.25	<0.25
4-Methyl-2-Pentanone		<0.42	<0.42	<0.42
2-Nitropropane		BDL	BDL	BDL
Pyridine		BDL	BDL	BDL
Tetrachloroethylene		<1.20	<1.20	<1.20
Toluene		<0.42	<0.42	<0.42
1,1,1-Trichloroethane		<0.50	<0.50	<0.50
1,1,2-Trichloroethane		<0.25	<0.25	<0.25
Trichloroethene		<0.54	<0.54	<0.54
Trichlorofluoromethane		<0.42	<0.42	<0.42
Trichlorotrifluoroethane		<0.42	<0.42	<0.42
Vinyl Chloride		NR	NR	NR
m,p-Xylenes		<0.25	<0.25	<0.25
o-Xylene		<0.17	<0.17	<0.17
Xylenes (Total)		NR	NR	NR

NR = Analysis not requested on this sample

0313

-5173**TABLE D-8**
(Continued)**SUBSURFACE MEDIA ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LIME SLUDGE POND**

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER		
		SP-EF-1-1 0-3 920407-198	SP-EF-2-1 0-3 920407-197	SP-EF-3-1 0-1 920407-199

TCLP Volatile Organics (mg/l):

Benzene	0.50	<0.09	<0.09	<0.09
2-Butanone	200.00	<0.25	<0.25	<0.25
Carbon Tetrachloride	0.50	<0.15	<0.15	<0.15
Chlorobenzene	100.00	<0.19	<0.19	<0.19
Chloroform	6.00	<0.12	<0.12	<0.12
1,4-Dichlorobenzene	7.50	<0.35	<0.35	<0.35
1,2-Dichloroethane	0.50	<0.10	<0.10	<0.10
1,1-Dichloroethylene	0.70	<0.12	<0.12	<0.12
Tetrachloroethylene	0.70	<0.19	<0.19	<0.19
Trichloroethylene	0.50	<0.22	<0.22	<0.22
Vinyl Chloride	0.20	<0.15	<0.15	<0.15

TCLP Semi Volatiles (mg/l):

m,p-Cresol	200.00	<0.04	<0.04	<0.04
o-Cresol	200.00	<0.04	<0.04	<0.04
1,4-Dichlorobenzene	7.50	NR	NR	NR
2,4-Dinitrotoluene	0.13	<0.04	<0.04	<0.04
Hexachlorobenzene	0.13	<0.04	<0.04	<0.04
Hexachloroethane	3.00	<0.04	<0.04	<0.04
Nitrobenzene	2.00	<0.04	<0.04	<0.04
Pentachlorophenol	100.00	<0.04	<0.04	<0.04
Pyridine	5.00	<0.08	<0.08	<0.08
2,4,6-Trichlorophenol	0.50	<0.04	<0.04	<0.04
2,4,5-Trichlorophenol	2.00	<0.04	<0.04	<0.04

TCLP Pesticides (mg/l):

Chlordane	0.030	<0.004	<0.004	<0.004
Endrin	0.020	<0.0004	<0.0004	<0.0004
Heptachlor	0.008	<0.0004	<0.0004	<0.0004
Heptachlor Epoxide	0.008	<0.0004	<0.0004	<0.0004
Lindane	0.400	<0.0004	<0.0004	<0.0004
Methoxychlor	10.000	<0.0004	<0.0004	<0.0004
Toxaphene	0.500	<0.02	<0.02	<0.02

TCLP Herbicides (mg/l):

2,4-D	10.00	<0.001	<0.001	<0.001
Silvex	1.00	<0.001	<0.001	<0.001

E. F. C.

0314.

TABLE D-9
LIME SLUDGE PONDS
RI/FS SURFACE WATER RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500			
SAMPLING DATE	05/14/91				08/29/91			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
NP-237	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	U
PU-238	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	U
PU-239/240	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	U
RA-226	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	U
RA-228	UNKN	3.000	pCi/L	UJ	UNKN	3.000	pCi/L	U
SR-90	UNKN	5.000	pCi/L	UJ	UNKN	5.000	pCi/L	U
TC-99	UNKN	30.000	pCi/L	UJ	UNKN	30.000	pCi/L	U
TH-228	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	U
TH-230	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	U
TH-232	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	U
TH-TOTAL	UNKN	3.500	ug/L	UJ	UNKN	4.700	ug/L	U
U-234	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	U
U-235/236	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	U
U-238	UNKN	1.220	pCi/L	UJ	UNKN	1.000	pCi/L	U
U-TOTAL	UNKN	6.330	ug/L	UJ	UNKN	1.000	ug/L	U

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TABLE D-9
(Continued)

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PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008					LIME SLUDGE 067500					LIME SLUDGE 067900					
SAMPLING DATE	05/14/91					08/29/91					11/06/91					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																
Aluminum	UNKN	0.100	mg/L	D	-	UNKN	0.127	mg/L	D	-	UNKN	0.099	mg/L	D	J	
Antimony	UNKN	0.030	mg/L	D	-	UNKN	0.030	mg/L	D	-	UNKN	0.037	mg/L	D	CCC	
Arsenic	UNKN	0.004	mg/L	D	-	UNKN	0.002	mg/L	D	-	UNKN	0.002	mg/L	D	CCC	
Barium	UNKN	0.043	mg/L	D	-	UNKN	0.061	mg/L	D	-	UNKN	0.041	mg/L	D	CCC	
Beryllium	UNKN	0.002	mg/L	D	-	UNKN	0.002	mg/L	D	-	UNKN	0.002	mg/L	D	CCC	
Boron	NA					UNKN	0.359	mg/L	C	-	UNKN	0.211	mg/L	D	CCC	
Cadmium	UNKN	0.009	mg/L	D	-	UNKN	0.004	mg/L	D	-	UNKN	0.007	mg/L	D	CCC	
Calcium	UNKN	43.300	mg/L	D	-	UNKN	71.000	mg/L	D	-	UNKN	47.900	mg/L	D	CCC	
Chromium	UNKN	0.012	mg/L	D	-	UNKN	0.021	mg/L	D	-	UNKN	0.016	mg/L	D	CCC	
Cobalt	UNKN	0.010	mg/L	D	-	UNKN	0.010	mg/L	D	-	UNKN	0.010	mg/L	D	CCC	
Copper	UNKN	0.010	mg/L	D	-	UNKN	0.010	mg/L	D	-	UNKN	0.010	mg/L	D	CCC	
Cyanide	UNKN	0.002	mg/L	C	N	UNKN	0.002	mg/L	D	-	NA					
Iron	UNKN	0.023	mg/L	D	-	UNKN	0.015	mg/L	D	-	UNKN	0.033	mg/L	D	CCC	
Lead	UNKN	0.002	mg/L	D	-	UNKN	0.002	mg/L	D	-	UNKN	0.002	mg/L	D	CCC	
Magnesium	UNKN	33.500	mg/L	D	-	UNKN	24.400	mg/L	D	-	UNKN	47.800	mg/L	D	CCC	
Manganese	UNKN	0.008	mg/L	D	-	UNKN	0.006	mg/L	D	-	UNKN	0.006	mg/L	D	CCC	
Mercury	UNKN	0.001	mg/L	C	N	UNKN	0.000	mg/L	D	-	UNKN	0.000	mg/L	D	CCC	
Molybdenum	UNKN	0.011	mg/L	D	-	UNKN	0.010	mg/L	D	-	UNKN	0.014	mg/L	D	CCC	
Nickel	UNKN	0.020	mg/L	D	-	UNKN	0.020	mg/L	D	-	UNKN	0.020	mg/L	D	CCC	
Potassium	UNKN	8.540	mg/L	D	-	UNKN	11.300	mg/L	D	-	UNKN	13.200	mg/L	D	CCC	
Selenium	UNKN	0.002	mg/L	D	-	UNKN	0.002	mg/L	D	-	UNKN	0.002	mg/L	D	CCC	
Silicon	UNKN	0.402	mg/L	D	-	UNKN	0.520	mg/L	C	-	UNKN	0.780	mg/L	D	CCC	
Silver	UNKN	0.010	mg/L	D	-	UNKN	0.017	mg/L	D	-	UNKN	0.011	mg/L	D	CCC	
Sodium	UNKN	272.000	mg/L	D	-	UNKN	299.000	mg/L	D	-	UNKN	199.000	mg/L	D	CCC	
Thallium	UNKN	0.002	mg/L	D	-	UNKN	0.010	mg/L	D	-	UNKN	0.002	mg/L	D	CCC	
Tin	NA					UNKN	0.200	mg/L	C	-	UNKN	0.200	mg/L	D	CCC	
Vanadium	UNKN	0.010	mg/L	D	U	UNKN	0.010	mg/L	D	-	UNKN	0.010	mg/L	D	CCC	
Zinc	UNKN	0.193	mg/L	D	-	UNKN	0.016	mg/L	D	-	UNKN	0.005	mg/L	D	CCC	
<u>Volatile Organics</u>																
1,1,1,2-Tetrachloroethane		NA				UNKN	NA	ug/L	D	U	UNFI	10.000	ug/L	D	U	
1,1,1,2-Tetrachloroethene		NA				UNKN	10.000	ug/L	D	U	UNFI	NA	5.000	ug/L	D	U
1,1,1-Trichloroethane		NA				UNKN	NA	ug/L	D	U	UNFI	NA	5.000	ug/L	D	U
1,1,1-Trichloroethene	UNKN	5.000	ug/L	C	NV	UNKN	5.000	ug/L	D	U	UNFI	NA	5.000	ug/L	D	U
1,1,2,2-Tetrachloroethane		NA				UNKN	NA	ug/L	D	U	UNFI	NA	5.000	ug/L	D	U
1,1,2,2-Tetrachloroethene	UNKN	5.000	ug/L	C	NV	UNKN	5.000	ug/L	D	U	UNFI	NA	5.000	ug/L	D	U
1,1,2-Trichloroethane		NA				UNKN	NA	ug/L	D	U	UNFI	NA	5.000	ug/L	D	U
1,1,2-Trichloroethene	UNKN	5.000	ug/L	C	NV	UNKN	5.000	ug/L	D	U	UNFI	NA	5.000	ug/L	D	U
1,1-Dichloroethane		NA				UNKN	NA	ug/L	D	U	UNFI	NA	5.000	ug/L	D	U
1,1-Dichloroethene	UNKN	5.000	ug/L	C	NV	UNKN	5.000	ug/L	D	U	UNFI	NA	5.000	ug/L	D	U
1,1-Dichloropropane		NA				UNKN	NA	ug/L	D	U	UNFI	NA	5.000	ug/L	D	U

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TABLE D-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900			
SAMPLING DATE	05/14/91				08/29/91				11/06/91			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
Volatile Organics												
1,1-Dichloroethene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,2,3-Trichloropropane		NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,2,3-Trichloropropane		NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,2-Dibromo-3-chloropropane		NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,2-Dibromo-3-chloropropane		NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,2-Dibromoethane		NA			UNKN	10.000	ug/L	D U	UNFI	NA	5.000	ug/L D U
1,2-Dibromoethane		NA			UNKN	NA			UNFI	NA	5.000	ug/L D U
1,2-Dichloroethane		NA			UNKN	5.000	ug/L	D U	UNFI	NA	5.000	ug/L D U
1,2-Dichloroethane	UNKN	5.000	ug/L	C NV	UNKN	NA			UNFI	NA	10.000	ug/L D U
1,2-Dichloroethene		NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,2-Dichloroethene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,2-Dichloropropene		NA			UNKN	5.000	ug/L	D U	UNFI	NA	5.000	ug/L D U
1,2-Dichloropropene	UNKN	5.000	ug/L	C NV	UNKN	NA			UNFI	NA	200.000	ug/L D R
1,4-Dioxane		NA			UNKN	200.000	ug/L	D U	UNFI	NA	NA	
1,4-Dioxane		NA			UNKN	NA			UNFI	NA	10.000	ug/L D U
2-Butanone		NA			UNKN	10.000	ug/L	D UJ	UNFI	NA	10.000	ug/L D UJ
2-Butanone	UNKN	10.000	ug/L	C NV	UNKN	NA			UNFI	NA	10.000	ug/L D UJ
2-Chloro-1,3-butadiene		NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
2-Chloro-1,3-butadiene		NA			UNKN	NA			UNFI	NA	10.000	ug/L D U
2-Hexanone		NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
2-Hexanone	UNKN	10.000	ug/L	C NV	UNKN	NA			UNFI	NA	10.000	ug/L D UJ
3-Chloropropene		NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
3-Chloropropene		NA			UNKN	NA			UNFI	NA	10.000	ug/L D U
4-Methyl-2-pentanone		NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
4-Methyl-2-pentanone	UNKN	10.000	ug/L	C NV	UNKN	NA			UNFI	NA	10.000	ug/L D U
Acetone		NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
Acetone	UNKN	8.000	ug/L	C NV	UNKN	NA			UNFI	NA	20.000	ug/L D UJ
Acetonitrile		NA			UNKN	NA			UNFI	NA	20.000	ug/L D UJ
Acetonitrile		NA			UNKN	20.000	ug/L	D U	UNFI	NA	20.000	ug/L D UJ
Acrolein		NA			UNKN	NA			UNFI	NA	20.000	ug/L D UJ
Acrolein		NA			UNKN	20.000	ug/L	D U	UNFI	NA	20.000	ug/L D R
Acrylonitrile		NA			UNKN	NA			UNFI	NA	20.000	ug/L D R
Acrylonitrile		NA			UNKN	20.000	ug/L	D U	UNFI	NA	5.000	ug/L D UJ
Benzene		NA			UNKN	NA			UNFI	NA	5.000	ug/L D UJ
Benzene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D UJ	UNFI	NA	5.000	ug/L D U
Bromodichloromethane		NA			UNKN	NA			UNFI	NA	5.000	ug/L D U
Bromodichloromethane		NA			UNKN	5.000	ug/L	D U	UNFI	NA	5.000	ug/L D U
Bromoform		NA			UNKN	NA			UNFI	NA	5.000	ug/L D U
Bromoform	UNKN	5.000	ug/L	C NV	UNKN	NA			UNFI	NA	10.000	ug/L D U
Bromomethane		NA			UNKN	NA			UNFI	NA	10.000	ug/L D U
Bromomethane	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D UJ	UNFI	NA	5.000	ug/L D U
Carbon Tetrachloride		NA			UNKN	NA			UNFI	NA	5.000	ug/L D U

TABLE D-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900				
SAMPLING DATE	05/14/91				08/29/91				11/06/91				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	
<u>Volatile Organics</u>													
Carbon Tetrachloride	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D U	UNFI	NA	5.000	ug/L D U	
Carbon disulfide		NA				NA				NA			
Carbon disulfide	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D UJ	UNFI	NA	5.000,	ug/L D UJ	
Chlorobenzene		NA				NA				NA			
Chlorobenzene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D UJ	UNFI	NA	10.000	ug/L D U	
Chloroethane		NA				NA				NA			
Chloroethane	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D U	UNFI	NA	5.000	ug/L D U	
Chloroform		NA				NA				NA			
Chloroform	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D U	UNFI	NA	10.000	ug/L D UJ	
Chloromethane		NA				NA				NA			
Chloromethane	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D UJ	UNFI	NA	5.000	ug/L D U	
Dibromochloromethane		NA				NA				NA			
Dibromochloromethane	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D U	UNFI	NA	10.000	ug/L D U	
Dibromomethane		NA				NA				NA			
Dibromomethane	UNKN	NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U	
Dichlorodifluoromethane		NA				NA				NA	200.000	ug/L D R	
Dichlorodifluoromethane	UNKN	NA			UNKN	200.000	ug/L	D U	UNFI	NA	10.000	ug/L D U	
Ethyl cyanide		NA				NA				NA	10.000	ug/L D U	
Ethyl cyanide	UNKN	NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U	
Ethyl methacrylate		NA				NA				NA	10.000	ug/L D U	
Ethyl methacrylate	UNKN	NA			UNKN	10.000	ug/L	D U	UNFI	NA	5.000	ug/L D UJ	
Ethylbenzene		NA				NA				NA	10.000	ug/L D U	
Ethylbenzene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D UJ	UNFI	NA	10.000	ug/L D U	
Iodomethane		NA				NA				NA	200.000	ug/L D U	
Iodomethane	UNKN	NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U	
Isobutyl alcohol		NA				NA				NA	10.000	ug/L D U	
Isobutyl alcohol	UNKN	NA			UNKN	200.000	ug/L	D U	UNFI	NA	10.000	ug/L D U	
Methacrylonitrile		NA				NA				NA	10.000	ug/L D U	
Methacrylonitrile	UNKN	NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U	
Methyl methacrylate		NA				NA				NA	10.000	ug/L D U	
Methyl methacrylate	UNKN	NA			UNKN	10.000	ug/L	D U	UNFI	NA	5.000	ug/L D U	
Methylene chloride		NA				NA				NA	5.000	ug/L D U	
Methylene chloride	UNKN	7.000	ug/L	C NV	UNKN	5.000	ug/L	D U	UNFI	NA	10.000	ug/L D U	
Pyridine		NA				NA				NA	10.000	ug/L D U	
Pyridine	UNKN	NA			UNKN	200.000	ug/L	D U	UNFI	NA	5.000	ug/L D UJ	
Styrene		NA				NA				NA	5.000	ug/L D U	
Styrene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D UJ	UNFI	NA	5.000	ug/L D U	
Tetrachloroethene		NA				NA				NA	5.000	ug/L D U	
Tetrachloroethene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D U	UNFI	NA	5.000	ug/L D UJ	
Toluene		NA				NA				UNFI	NA	5.000	ug/L D U
Toluene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D UJ	UNFI	NA	5.000	ug/L D U	
Trichloroethene		NA				NA				UNFI	NA	5.000	ug/L D U

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TABLE D-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900			
SAMPLING DATE	05/14/91				08/29/91				11/06/91			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>												
Trichloroethene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D U	UNKN	NA	10.000	ug/L D U
Trichlorofluoromethane		NA				10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Vinyl Acetate		NA				NA				NA	10.000	ug/L D U
Vinyl chloride	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
Vinyl chloride		NA				NA				NA	10.000	ug/L D U
Xylenes, Total	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D U	UNFI	5.000	ug/L	D UJ
Xylenes, Total		NA				NA				NA	5.000	ug/L D UJ
cis-1,3-Dichloropropene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D UJ	UNFI	5.000	ug/L	D U
cis-1,3-Dichloropropene		NA				NA				NA	5.000	ug/L D U
trans-1,3-Dichloropropene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D U	UNFI	5.000	ug/L	D U
trans-1,3-Dichloropropene		NA				NA				NA	5.000	ug/L D U
trans-1,4-Dichloro-2-butene	UNKN	5.000	ug/L	C NV	UNKN	5.000	ug/L	D U	UNFI	10.000	ug/L	D U
trans-1,4-Dichloro-2-butene		NA				NA				NA	10.000	ug/L D U
<u>Semivolatile Organics</u>												
1,2,4,5-Tetrachlorobenzene		NA				NA			UNFI	10.000	ug/L	D UJ
1,2,4,5-Tetrachlorobenzene		NA				10.000	ug/L	D UJ	UNFI	NA	10.000	ug/L D U
1,2,4-Trichlorobenzene		NA				NA			UNFI	10.000	ug/L	D U
1,2,4-Trichlorobenzene	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
1,2-Dichlorobenzene		NA				NA			UNFI	10.000	ug/L	D U
1,2-Dichlorobenzene	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D U	UNFI	10.000	ug/L	D U
1,3,5-Trinitrobenzene		NA				NA			UNFI	10.000	ug/L	D U
1,3,5-Trinitrobenzene	UNKN	NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,3-Dichlorobenzene		NA				NA			UNFI	10.000	ug/L	D U
1,3-Dichlorobenzene	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,3-Dinitrobenzene		NA				NA			UNFI	10.000	ug/L	D U
1,3-Dinitrobenzene	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,4-Dichlorobenzene		NA				NA			UNFI	10.000	ug/L	D U
1,4-Dichlorobenzene	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
1,4-Naphthoquinone		NA				NA			UNFI	10.000	ug/L	D UJ
1,4-Naphthoquinone	UNKN	NA			UNKN	10.000	ug/L	D UJ	UNFI	NA	10.000	ug/L D U
1-Naphthylamine		NA				NA			UNFI	120.000	ug/L	D U
1-Naphthylamine	UNKN	NA			UNKN	120.000	ug/L	D U	UNFI	NA	120.000	ug/L D U
2,3,4,6-Tetrachlorophenol		NA				NA			UNFI	10.000	ug/L	D U
2,3,4,6-Tetrachlorophenol	UNKN	50.000	ug/L	C NV	UNKN	50.000	ug/L	D U	UNFI	NA	50.000	ug/L D U
2,4,5-Trichlorophenol		NA				NA			UNFI	NA	50.000	ug/L D U
2,4,5-Trichlorophenol	UNKN	10.000	ug/L	C NV	UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
2,4,6-Trichlorophenol		NA				NA			UNFI	NA	10.000	ug/L D U
2,4,6-Trichlorophenol	UNKN	NA			UNKN	10.000	ug/L	D U	UNFI	NA	10.000	ug/L D U
2,4-Dichlorophenol		NA				NA			UNFI	NA	10.000	ug/L D U

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TABLE D-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900							
SAMPLING DATE	05/14/91				08/29/91				11/06/91							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Semivolatile Organics</u>																
2,4-Dichlorophenol	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2,4-Dimethylphenol	UNKN	NA	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	50.000	ug/L	D	UJ
2,4-Dimethylphenol	UNKN	10.000	ug/L	C	NV	UNKN	50.000	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	U
2,4-Dinitrophenol	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2,4-Dinitrophenol	UNKN	50.000	ug/L	C	NV	UNKN	50.000	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	U
2,4-Dinitrotoluene	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2,4-Dinitrotoluene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2,6-Dichlorophenol	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	U
2,6-Dichlorophenol	UNKN	NA	ug/L	C	NV	UNKN	10.000	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	U
2,6-Dinitrotoluene	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2,6-Dinitrotoluene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Acetylaminofluorene	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Acetylaminofluorene	UNKN	NA	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Choronaphthalene	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Choronaphthalene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Chorophenol	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Methylnaphthalene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Methylnaphthalene	UNKN	NA	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Methylphenol	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Methylphenol	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	170.000	ug/L	D	U
2-Naphthylamine	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	UJ	UNFI	NA	170.000	ug/L	D	U
2-Naphthylamine	UNKN	NA	ug/L	C	NV	UNKN	170.000	ug/L	D	UJ	UNFI	NA	50.000	ug/L	D	U
2-Nitroaniline	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Nitroaniline	UNKN	50.000	ug/L	C	NV	UNKN	50.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2-Nitrophenol	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	70.000	ug/L	D	U
2-Nitrophenol	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	70.000	ug/L	D	U
2-Picoline	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	UJ	UNFI	NA	20.000	ug/L	D	U
3,3'-Dichlorobenzidine	UNKN	NA	ug/L	C	NV	UNKN	20.000	ug/L	D	U	UNFI	NA	80.000	ug/L	D	U
3,3'-Dichlorobenzidine	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	30.000	ug/L	D	UJ
3,3'-Dimethylbenzidine	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
3,3'-Dimethylbenzidine	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	50.000	ug/L	D	U
3-Methylcholanthrene	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
3-Methylcholanthrene	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	NA	ug/L	D	U
3-Methylphenol	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	NA	ug/L	D	U
3-Methylphenol	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	NA	ug/L	D	U
3-Nitroaniline	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	NA	ug/L	D	U
3-Nitroaniline	UNKN	50.000	ug/L	C	NV	UNKN	50.000	ug/L	D	U	UNFI	NA	50.000	ug/L	D	U
4,6-Dinitro-2-methylphenol	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	50.000	ug/L	D	U
4,6-Dinitro-2-methylphenol	UNKN	50.000	ug/L	C	NV	UNKN	50.000	ug/L	D	U	UNFI	NA	50.000	ug/L	D	U
4-Aminobiphenyl	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	50.000	ug/L	D	U

TABLE D-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900							
SAMPLING DATE	05/14/91				08/29/91				11/06/91							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Semivolatile Organics</u>																
4-Aminobiphenyl		NA				UNKN	50.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
4-Bromophenyl phenyl ether		NA				UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
4-Bromophenyl phenyl ether	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U
4-Chloro-3-methylphenol		NA				UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
4-Chloro-3-methylphenol	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U
4-Chlorophenylphenyl ether		NA				UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
4-Chlorophenylphenyl ether	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U
4-Methylphenol		NA				UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
4-Methylphenol	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U
4-Nitroaniline		NA				UNKN	NA				UNFI	NA	50.000	ug/L	D	U
4-Nitroaniline	UNKN	50.000	ug/L	C	NV	UNKN	50.000	ug/L	D	U	UNFI	NA	50.000	ug/L	D	U
4-Nitrophenol		NA				UNKN	NA				UNFI	NA	50.000	ug/L	D	U
4-Nitrophenol	UNKN	50.000	ug/L	C	NV	UNKN	50.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
4-Nitroquinoline-1-oxide		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U
4-Nitroquinoline-1-oxide		NA				UNKN	10.000	ug/L	D	UJ	UNFI	NA	20.000	ug/L	D	U
5-Nitro-o-toluidine		NA				UNKN	20.000	ug/L	D	U	UNFI	NA	20.000	ug/L	D	U
5-Nitro-o-toluidine		NA				UNKN	20.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
7,12-Dimethylbenz(a)anthracene		NA				UNKN	NA				UNFI	NA	20.000	ug/L	D	U
7,12-Dimethylbenz(a)anthracene		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U
Acenaphthene		NA				UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Acenaphthene	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U
Acenaphthylene		NA				UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Acenaphthylene	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U
Acetophenone		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U
Acetophenone		NA				UNKN	10.000	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	U
Aniline		NA				UNKN	NA				UNFI	NA	50.000	ug/L	D	U
Aniline		NA				UNKN	50.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Anthracene		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U
Anthracene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Aramite		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	UJ
Aramite		NA				UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Benzo(a)anthracene		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U
Benzo(a)anthracene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Benzo(a)pyrene		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U
Benzo(a)pyrene		NA				UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Benzo(b)fluoranthene		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U
Benzo(b)fluoranthene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Benzo(g,h,i)perylene		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U
Benzo(g,h,i)perylene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Benzo(k)fluoranthene		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U
Benzo(k)fluoranthene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	50.000	ug/L	D	U
Benzoic acid		NA														

TABLE D-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900								
SAMPLING DATE	05/14/91				08/29/91				11/06/91								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
<u>Semivolatile Organics</u>																	
Benzoic acid	UNKN	50.000	ug/L	C	NV	UNKN	50.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U	
Benzyl alcohol	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Benzyl alcohol	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Butyl benzyl phthalate	UNKN	NA				UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U	
Butyl benzyl phthalate	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Chrysene	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Chrysene	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Di-n-butyl phthalate	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Di-n-butyl phthalate	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Di-n-octyl phthalate	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Di-n-octyl phthalate	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Diallatic	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	UJ
Diallatic	UNKN	NA				UNKN	NA	10.000	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	UJ
Dibenzo(a,h)anthracene	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Dibenzofuran	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Dibenzofuran	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Diethyl phthalate	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Diethyl phthalate	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Dimethyl phthalate	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Dimethyl phthalate	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Diphenylamine	UNKN	NA				UNKN	NA	10.000	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	UJ
Diphenylamine	UNKN	NA				UNKN	NA	10.000	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	UJ
Ethyl methanesulfonate	UNKN	NA				UNKN	NA	10.000	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	U
Ethyl methanesulfonate	UNKN	NA				UNKN	NA	10.000	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	U
Fluoranthene	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Fluoranthene	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Fluorene	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Fluorene	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Hexachlorobenzene	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Hexachlorobenzene	UNKN	NA				UNKN	NA	10.000	ug/L	C	NV	UNFI	NA	10.000	ug/L	D	U
Hexachlorobutadiene	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Hexachlorobutadiene	UNKN	NA				UNKN	NA	10.000	ug/L	C	NV	UNFI	NA	10.000	ug/L	D	U
Hexachlorocyclopentadiene	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Hexachlorocyclopentadiene	UNKN	NA				UNKN	NA	10.000	ug/L	D	UJ	UNFI	NA	10.000	ug/L	D	U
Hexachloroethane	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Hexachloroethane	UNKN	10.000	ug/L	C	NV	UNKN	NA	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Hexachlorophene	UNKN	NA				UNKN	NA	10.000	ug/L	D	U	UNFI	NA	50.000	ug/L	D	UJ
Hexachlorophene	UNKN	NA				UNKN	NA	50.000	ug/L	D	UJ	UNFI	NA	50.000	ug/L	D	U
Hexachloropropene	UNKN	NA				UNKN	NA	20.000	ug/L	D	UJ	UNFI	NA	20.000	ug/L	D	R
Hexachloropropene	UNKN	NA				UNKN	NA	NA				UNFI	NA	NA			
Indeno(1,2,3-cd)pyrene	UNKN	NA				UNKN	NA	NA				UNFI	NA	10.000	ug/L	D	U

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TABLE D-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900							
SAMPLING DATE	05/14/91				08/29/91				11/06/91							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Semivolatile Organics</u>																
Indeno(1,2,3-cd)pyrene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
Isophorone	UNKN	NA				UNKN	NA				UNFI	NA				
Isophorone	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	
Isosafrole		NA				UNKN	NA				UNFI	NA				
Isosafrole		NA				UNKN	10.000	ug/L	D	UJ	UNFI	40.000	ug/L	D	UJ	
Methapyriline		NA				UNKN	NA				UNFI	10.000	ug/L	D	U	
Methapyriline		NA				UNKN	40.000	ug/L	D	R	UNFI	NA				
Methyl methanesulfonate		NA				UNKN	NA				UNFI	10.000	ug/L	D	UJ	
Methyl methanesulfonate		NA				UNKN	10.000	ug/L	D	UJ	UNFI	NA				
Methyl parathion		NA				UNKN	NA				UNFI	3.000	ug/L	D	UJ	
Methyl parathion		NA				UNKN	3.000	ug/L	D	U	UNFI	NA				
N-Nitroso-di-n-propylamine		NA				UNKN	NA				UNFI	10.000	ug/L	D	U	
N-Nitroso-di-n-propylamine	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA				
N-Nitrosodi-n-butylamine		NA				UNKN	NA				UNFI	20.000	ug/L	D	UJ	
N-Nitrosodi-n-butylamine		NA				UNKN	20.000	ug/L	D	U	UNFI	NA				
N-Nitrosodiethylamine		NA				UNKN	NA				UNFI	10.000	ug/L	D	UJ	
N-Nitrosodiethylamine		NA				UNKN	10.000	ug/L	D	UJ	UNFI	NA				
N-Nitrosodimethylamine		NA				UNKN	NA				UNFI	10.000	ug/L	D	U	
N-Nitrosodimethylamine		NA				UNKN	10.000	ug/L	D	U	UNFI	NA				
N-Nitrosodiphenylamine		NA				UNKN	NA				UNFI	10.000	ug/L	D	U	
N-Nitrosodiphenylamine	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA				
N-Nitrosomethylethyldiamine		NA				UNKN	NA				UNFI	10.000	ug/L	D	UJ	
N-Nitrosomethylethyldiamine		NA				UNKN	10.000	ug/L	D	UJ	UNFI	NA				
N-Nitrosomorpholine		NA				UNKN	NA				UNFI	10.000	ug/L	D	U	
N-Nitrosomorpholine		NA				UNKN	10.000	ug/L	D	U	UNFI	NA				
N-Nitrosopiperidine		NA				UNKN	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	
N-Nitrosopiperidine		NA				UNKN	NA				UNFI	NA				
N-Nitrosopyrrolidine		NA				UNKN	NA				UNFI	10.000	ug/L	D	UJ	
N-Nitrosopyrrolidine		NA				UNKN	10.000	ug/L	D	U	UNFI	NA				
Naphthalene		NA				UNKN	NA				UNFI	10.000	ug/L	D	U	
Naphthalene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA				
Nitrobenzene		NA				UNKN	NA				UNFI	10.000	ug/L	D	U	
Nitrobenzene	UNKN	10.000	ug/L	C	NV	UNKN	10.000	ug/L	D	U	UNFI	NA				
O,O-O-Triethylphosphorothioate		NA				UNKN	NA				UNFI	3.000	ug/L	D	UJ	
O,O-O-Triethylphosphorothioate		NA				UNKN	3.000	ug/L	D	U	UNFI	NA				
Parathion		NA				UNKN	NA				UNFI	3.000	ug/L	D	UJ	
Parathion		NA				UNKN	3.000	ug/L	D	U	UNFI	NA				
Pentachlorobenzene		NA				UNKN	NA				UNFI	20.000	ug/L	D	UJ	
Pentachlorobenzene		NA				UNKN	20.000	ug/L	D	U	UNFI	NA				
Pentachloroethane		NA				UNKN	NA				UNFI	20.000	ug/L	D	U	
Pentachloroethane		NA				UNKN	20.000	ug/L	D	UJ	UNFI	NA				
Pentachloronitrobenzene		NA				UNKN	NA				UNFI	20.000	ug/L	D	UJ	

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TABLE D-9
(Continued)

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PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900								
SAMPLING DATE	05/14/91				08/29/91				11/06/91								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
<u>Semivolatile Organics</u>																	
Pentachloronitrobenzene		NA				UNKN	20.000	ug/L	D	U		NA	50.000	ug/L	D	U	
Pentachlorophenol		NA				UNKN	50.000	ug/L	D	U		NA	10.000	ug/L	D	U	
Pentachlorophenol	UNKN	50.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
Phenacetin		NA				UNKN	10.000	ug/L	D	U		NA	10.000	ug/L	D	U	
Phenacetin		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
Phenanthrene		NA				UNKN	10.000	ug/L	D	U		NA	10.000	ug/L	D	U	
Phenanthrene	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
Phenol		NA				UNKN	10.000	ug/L	D	U		NA	10.000	ug/L	D	U	
Phenol	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	30.000	ug/L	D	U	
Pronamide		NA				UNKN	30.000	ug/L	D	U		NA	10.000	ug/L	D	U	
Pronamide		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
Pyrene		NA				UNKN	10.000	ug/L	D	U		NA	10.000	ug/L	D	U	
Pyrene	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
Safrole		NA				UNKN	10.000	ug/L	D	UJ		NA	10.000	ug/L	D	U	
Safrole		NA				UNKN	NA				UNFI	NA	3.000	ug/L	D	UJ	
Sulfotep		NA				UNKN	10.000	ug/L	D	UJ		NA	10.000	ug/L	D	U	
Sulfotep		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
Tributyl phosphate		NA				UNKN	10.000	ug/L	D	U		NA	10.000	ug/L	D	U	
a,a-Dimethylphenethylamine		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
a,a-Dimethylphenethylamine		NA				UNKN	10.000	ug/L	D	U		UNFI	NA	10.000	ug/L	D	U
bis(2-Chloroethoxy)methane		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
bis(2-Chloroethoxy)methane		NA				UNKN	10.000	ug/L	D	U		UNFI	NA	10.000	ug/L	D	U
bis(2-Chloroethyl)ether	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
bis(2-Chloroethyl)ether	UNKN	NA				UNKN	10.000	ug/L	D	U		UNFI	NA	10.000	ug/L	D	U
bis(2-Chloroisopropyl) ether	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
bis(2-Chloroisopropyl) ether	UNKN	NA				UNKN	10.000	ug/L	D	U		UNFI	NA	10.000	ug/L	D	U
bis(2-Ethylhexyl) phthalate	UNKN	10.000	ug/L	C	NV	UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
bis(2-Ethylhexyl) phthalate	UNKN	NA				UNKN	10.000	ug/L	D	U		UNFI	NA	10.000	ug/L	D	U
o-Toluidine		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
o-Toluidine		NA				UNKN	10.000	ug/L	D	UJ		UNFI	NA	10.000	ug/L	D	U
p-Chloroaniline		NA				UNKN	NA				UNFI	NA	10.000	ug/L	D	U	
p-Chloroaniline		NA				UNKN	10.000	ug/L	D	U		UNFI	NA	10.000	ug/L	D	U
p-Dimethylaminobenzene		NA				UNKN	NA				UNFI	NA	30.000	ug/L	D	UJ	
p-Dimethylaminobenzene		NA				UNKN	30.000	ug/L	D	U		UNFI	NA	30.000	ug/L	D	UJ
p-Phenylenediamine		NA				UNKN	NA				UNFI	NA	50.000	ug/L	D	U	
p-Phenylenediamine		NA				UNKN	50.000	ug/L	D	UJ		UNFI	NA	50.000	ug/L	D	UJ
<u>Herbicide Organics</u>																	
2,4,5-T		NA				UNKN	NA				UNFI	NA	2.000	ug/L	D	U	
2,4,5-T		NA				UNKN	2.000	ug/L	D	U		UNFI	NA	1.800	ug/L	D	U
2,4,5-TP (Silvex)		NA				UNKN	NA				UNFI	NA	1.800	ug/L	D	U	

TABLE D-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900							
SAMPLING DATE	05/14/91				06/29/91				11/06/91							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Herbicide Organics</u>																
2,4,5-TP (Silvex)		NA				UNKN	1.800	ug/L	D	U	UNFI	NA	10.000	ug/L	D	U
2,4-D		NA				UNKN	10.000	ug/L	D	U	UNFI	NA	0.710	ug/L	D	U
2,4-D		NA				UNKN	0.710	ug/L	D	U	UNFI	NA				
Dinoseb		NA														
Dinoseb		NA														
<u>Pesticide Organics/PCBs</u>																
4,4'-DDD		NA				UNKN	0.100	ug/L	C	NV	UNFI	NA	0.100	ug/L	D	U
4,4'-DDD		UNKN	0.100	ug/L	C	UNKN	0.100	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
4,4'-DDE		NA				UNKN	0.100	ug/L	C	NV	UNFI	NA	0.100	ug/L	D	U
4,4'-DDE		UNKN	0.100	ug/L	C	UNKN	0.100	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
4,4'-DDT		NA				UNKN	0.100	ug/L	C	NV	UNFI	NA	0.100	ug/L	D	U
4,4'-DDT		UNKN	0.100	ug/L	C	UNKN	0.100	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Aldrin		NA				UNKN	0.050	ug/L	C	NV	UNFI	NA	0.500	ug/L	D	U
Aldrin		UNKN	0.050	ug/L	C	UNKN	0.050	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
Aroclor-1016		NA				UNKN	0.500	ug/L	C	NV	UNFI	NA	0.500	ug/L	D	U
Aroclor-1016		UNKN	0.500	ug/L	C	UNKN	0.500	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
Aroclor-1221		NA				UNKN	0.500	ug/L	C	NV	UNFI	NA	0.500	ug/L	D	U
Aroclor-1221		UNKN	0.500	ug/L	C	UNKN	0.500	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
Aroclor-1232		NA				UNKN	0.500	ug/L	C	NV	UNFI	NA	0.500	ug/L	D	U
Aroclor-1232		UNKN	0.500	ug/L	C	UNKN	0.500	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
Aroclor-1242		NA				UNKN	0.500	ug/L	C	NV	UNFI	NA	0.500	ug/L	D	U
Aroclor-1242		UNKN	0.500	ug/L	C	UNKN	0.500	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
Aroclor-1248		NA				UNKN	0.500	ug/L	C	NV	UNFI	NA	0.500	ug/L	D	U
Aroclor-1248		UNKN	0.500	ug/L	C	UNKN	0.500	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
Aroclor-1254		NA				UNKN	1.000	ug/L	C	NV	UNFI	NA	1.000	ug/L	D	U
Aroclor-1254		UNKN	1.000	ug/L	C	UNKN	1.000	ug/L	D	U	UNFI	NA	1.000	ug/L	D	U
Aroclor-1260		NA				UNKN	1.000	ug/L	C	NV	UNFI	NA	1.000	ug/L	D	U
Aroclor-1260		UNKN	1.000	ug/L	C	UNKN	1.000	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Chlorobenzilate		NA				UNKN	NA	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Chlorobenzilate		NA				UNKN	0.100	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Die�din		NA				UNKN	0.100	ug/L	C	NV	UNFI	NA	0.100	ug/L	D	U
Die�din		UNKN	0.100	ug/L	C	UNKN	0.100	ug/L	D	U	UNFI	NA	3.000	ug/L	D	U
Dimethoate		NA				UNKN	3.000	ug/L	D	U	UNFI	NA	3.000	ug/L	D	U
Dimethoate		NA				UNKN	3.000	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Disulfoton		NA				UNKN	NA	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Disulfoton		NA				UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Endosulfan II		NA				UNKN	0.100	ug/L	C	NV	UNFI	NA	0.100	ug/L	D	U
Endosulfan II		UNKN	0.100	ug/L	C	UNKN	0.100	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Endosulfan sulfate		UNKN	0.100	ug/L	C	UNKN	0.100	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Endosulfan-I		NA				UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U

TABLE D-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900							
SAMPLING DATE	05/14/91				08/29/91				11/06/91							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Pesticide Organics/PCBs</u>																
Endosulfan-I	UNKN	0.050	ug/L	C	NV	UNKN	0.050	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Endrin	UNKN	NA	ug/L	C	NV	UNKN	0.100	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Endrin	UNKN	0.100	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Endrin ketone	UNKN	NA	ug/L	C	NV	UNKN	0.100	ug/L	D	U	UNFI	NA	NA	ug/L	D	U
Endrin ketone	UNKN	0.100	ug/L	C	NV	UNKN	3.000	ug/L	D	U	UNFI	NA	3.000	ug/L	D	UJ
Ethion	UNKN	NA	ug/L	C	NV	UNKN	3.000	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Famphur	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Famphur	UNKN	NA	ug/L	C	NV	UNKN	0.050	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Heptachlor	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Heptachlor	UNKN	0.050	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Heptachlor epoxide	UNKN	NA	ug/L	C	NV	UNKN	0.050	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Heptachlor epoxide	UNKN	0.050	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Isodrin	UNKN	NA	ug/L	C	NV	UNKN	0.050	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Isodrin	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.100	ug/L	D	U
Kepone	UNKN	NA	ug/L	C	NV	UNKN	0.100	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
Methoxychlor	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	3.000	ug/L	D	UJ
Methoxychlor	UNKN	0.500	ug/L	C	NV	UNKN	0.500	ug/L	D	U	UNFI	NA	3.000	ug/L	D	UJ
Phorate	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	3.000	ug/L	D	UJ
Phorate	UNKN	NA	ug/L	C	NV	UNKN	3.000	ug/L	D	U	UNFI	NA	3.000	ug/L	D	UJ
Tetraethylpyrophosphate	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	1.000	ug/L	D	U
Thionazin	UNKN	NA	ug/L	C	NV	UNKN	3.000	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Thionazin	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
Toxaphene	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
Toxaphene	UNKN	1.000	ug/L	C	NV	UNKN	1.000	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
alpha-BHC	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
alpha-BHC	UNKN	0.050	ug/L	C	NV	UNKN	0.050	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
alpha-Chlordane	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
alpha-Chlordane	UNKN	0.500	ug/L	C	NV	UNKN	0.500	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
beta-BHC	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
beta-BHC	UNKN	0.050	ug/L	C	NV	UNKN	0.050	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
delta-BHC	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
delta-BHC	UNKN	0.050	ug/L	C	NV	UNKN	0.050	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
gamma-BHC (Lindane)	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
gamma-BHC (Lindane)	UNKN	0.050	ug/L	C	NV	UNKN	0.050	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
gamma-Chlordane	UNKN	NA	ug/L	C	NV	UNKN	NA	ug/L	D	U	UNFI	NA	0.050	ug/L	D	U
gamma-Chlordane	UNKN	0.500	ug/L	C	NV	UNKN	0.500	ug/L	D	U	UNFI	NA	0.500	ug/L	D	U
<u>General Chemistry</u>																
Ammonia	UNKN	0.100	mg/L	C	NV	UNKN	0.100	mg/L	C	U	NA	NA	NA	NA	NA	NA
Chloride	UNKN	550.000	mg/L	C	NV	UNKN	519.000	mg/L	C	-	NA	NA	NA	NA	NA	NA

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TABLE D-9
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067008				LIME SLUDGE 067500				LIME SLUDGE 067900						
SAMPLING DATE	05/14/91				08/29/91				11/06/91						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Fluoride	UNKN	0.240	mg/L	C	NV	UNKN	0.270	mg/L	C	-		NA			
Nitrate	UNKN	4.480	mg/L	C	NV	UNKN	6.900	mg/L	C	-		NA			
Phenols	UNKN	0.010	mg/L	C	NV		NA					NA			
Phosphorus	UNKN	0.840	mg/L	C	NV	UNKN	0.050	mg/L	C	J		NA			
Sulfate	UNKN	126.000	mg/L	C	NV	UNKN	2.000	mg/L	C	R		NA			
Sulfide	UNKN	0.500	mg/L	C	NV	UNKN	0.500	mg/L	C	UJ		NA			
Total Organic Carbon	UNKN	5.950	mg/L	C	NV	UNKN	279.000	mg/L	C	-		NA			
Total Organic Halides	UNKN	0.010	mg/L	C	NV		NA					NA			
Total Organic Nitrogen	UNKN	0.786	mg/L	C	NV	UNKN	0.500	mg/L	C	-		NA			

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TABLE D-9
(Continued)

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PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LIME SLUDGE 067907			
SAMPLING DATE	11/07/91			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>				
Aluminum	UNKN	0.095	mg/L	D
Antimony	UNKN	0.033	mg/L	-
Arsenic	UNKN	0.003	mg/L	-
Barium	UNKN	0.033	mg/L	-
Beryllium	UNKN	0.002	mg/L	-
Boron	UNKN	0.243	mg/L	-
Cadmium	UNKN	0.007	mg/L	-
Calcium	UNKN	43.500	mg/L	-
Chromium	UNKN	0.015	mg/L	-
Cobalt	UNKN	0.010	mg/L	-
Copper	UNKN	0.010	mg/L	-
Iron	UNKN	0.023	mg/L	-
Lead	UNKN	0.002	mg/L	-
Magnesium	UNKN	45.900	mg/L	-
Manganese	UNKN	0.114	mg/L	-
Mercury	UNKN	0.000	mg/L	-
Molybdenum	UNKN	0.018	mg/L	-
Nickel	UNKN	0.020	mg/L	-
Potassium	UNKN	11.400	mg/L	-
Selenium	UNKN	0.002	mg/L	-
Silicon	UNKN	1.040	mg/L	-
Silver	UNKN	0.011	mg/L	-
Sodium	UNKN	185.000	mg/L	-
Thallium	UNKN	0.002	mg/L	-
Tin	UNKN	0.200	mg/L	-
Vanadium	UNKN	0.010	mg/L	-
Zinc	UNKN	0.008	mg/L	-

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TABLE D-9
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LSP-SW-01 114595 DUPLICATE				LSP-SW-01 114593			
SAMPLING DATE	05/16/93				05/16/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	16.000	pCi/L	UJ	UNFI	14.300	pCi/L	UJ
GROSS ALPHA	UNFI	9.800	pCi/L	UJ	UNFI	3.650	pCi/L	UJ
GROSS BETA	UNFI	6.410	pCi/L	UJ	UNFI	4.220	pCi/L	J
NP-237	UNFI	0.359	pCi/L	R	UNFI	0.229	pCi/L	UJ
PU-238	UNFI	0.295	pCi/L	UJ	UNFI	0.266	pCi/L	UJ
PU-239/240	UNFI	0.141	pCi/L	UJ	UNFI	1.290	pCi/L	R
RA-226	UNFI	0.201	pCi/L	UJ	UNFI	0.106	pCi/L	UJ
RA-228	UNFI	1.990	pCi/L	U	UNFI	2.870	pCi/L	UJ
RU-106	UNFI	78.500	pCi/L	UJ	UNFI	127.000	pCi/L	UJ
SR-90	UNFI	0.706	pCi/L	UJ	UNFI	0.649	pCi/L	UJ
TC-99	UNFI	8.100	pCi/L	UJ	UNFI	8.100	pCi/L	UJ
TH-228	UNFI	0.308	pCi/L	UJ	UNFI	0.099	pCi/L	UJ
TH-230	UNFI	0.287	pCi/L	U	UNFI	0.210	pCi/L	UJ
TH-232	UNFI	0.192	pCi/L	UJ	UNFI	0.099	pCi/L	UJ
TH-TOTAL	UNFI	1.770	ug/L	UJ	UNFI	0.908	ug/L	UJ
U-234	UNFI	0.284	pCi/L	R	UNFI	0.271	pCi/L	UJ
U-235/236	UNFI	0.168	pCi/L	R	UNFI	0.132	pCi/L	UJ
U-238	UNFI	0.285	pCi/L	R	UNFI	0.272	pCi/L	UJ
U-TOTAL	UNFI	0.060	ug/L	J	UNFI	1.000	ug/L	UJ

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TABLE D-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SW-01					LSP-SW-01				
SAMPLE NUMBER	114593					114595				
SAMPLING DATE	05/16/93					DUPLICATE 05/16/93				
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>										
Aluminum	UNFI	0.106	mg/L	C	U	UNFI	0.030	mg/L	C	U
Antimony	UNFI	0.005	mg/L	C	C	UNFI	0.005	mg/L	C	C
Arsenic	UNFI	0.002	mg/L	C	C	UNFI	0.002	mg/L	C	C
Barium	UNFI	0.018	mg/L	C	C	UNFI	0.016	mg/L	C	C
Beryllium	UNFI	0.002	mg/L	C	C	UNFI	0.002	mg/L	C	C
Cadmium	UNFI	0.005	mg/L	C	C	UNFI	0.005	mg/L	C	C
Calcium	UNFI	17.200	mg/L	C	C	UNFI	15.900	mg/L	C	C
Chromium	UNFI	0.010	mg/L	C	C	UNFI	0.010	mg/L	C	C
Cobalt	UNFI	0.010	mg/L	C	C	UNFI	0.010	mg/L	C	C
Copper	UNFI	0.010	mg/L	C	C	UNFI	0.010	mg/L	C	C
Cyanide	UNFI	0.002	mg/L	C	C	UNFI	0.002	mg/L	C	C
Iron	UNFI	0.020	mg/L	C	C	UNFI	0.020	mg/L	C	C
Lead	UNFI	0.002	mg/L	C	C	UNFI	0.002	mg/L	C	C
Magnesium	UNFI	17.900	mg/L	C	C	UNFI	17.400	mg/L	C	C
Manganese	UNFI	0.010	mg/L	C	C	UNFI	0.010	mg/L	C	C
Mercury	UNFI	0.000	mg/L	C	C	UNFI	0.000	mg/L	C	C
Molybdenum	UNFI	0.010	mg/L	C	C	UNFI	0.010	mg/L	C	C
Nickel	UNFI	0.020	mg/L	C	C	UNFI	0.020	mg/L	C	C
Potassium	UNFI	3.930	mg/L	C	C	UNFI	3.740	mg/L	C	C
Selenium	UNFI	0.002	mg/L	C	C	UNFI	0.002	mg/L	C	C
Silicon	UNFI	0.572	mg/L	C	C	UNFI	0.444	mg/L	C	C
Silver	UNFI	0.010	mg/L	C	C	UNFI	0.010	mg/L	C	C
Sodium	UNFI	40.600	mg/L	C	C	UNFI	39.400	mg/L	C	C
Thallium	UNFI	0.002	mg/L	C	C	UNFI	0.002	mg/L	C	C
Vanadium	UNFI	0.010	mg/L	C	C	UNFI	0.010	mg/L	C	C
Zinc	UNFI	0.005	mg/L	C	C	UNFI	0.005	mg/L	C	C
<u>Volatile Organics</u>										
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	C
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C
1,1-Dichloroethane	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C
1,1-Dichloroethene	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C
1,2-Dichloroethane	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C
1,2-Dichloroethene	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C
2-Butanone	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C
2-Hexanone	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C
Acetone	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C
Benzene	UNFI	10.000	ug/L	C	C	UNFI	10.000	ug/L	C	C

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TABLE D-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LSP-SW-01 114593				LSP-SW-01 114595 DUPLICATE 05/16/93					
SAMPLING DATE	05/16/93									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>										
Bromodichloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Bromoform	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Bromomethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Carbon Tetrachloride	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Carbon disulfide	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chloroform	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Chloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Dibromochloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Ethylbenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Methylene chloride	UNFI	13.000	ug/L	C	U	UNFI	12.000	ug/L	C	U
Styrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Tetrachloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Toluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Trichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Vinyl Acetate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Vinyl chloride	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Xylenes, Total	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
<u>Semivolatile Organics</u>										
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	C	R
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Benzyl-4-chlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Chloronaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Chlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
2-Nitroaniline	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U
2-Nitrophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U

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0331

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TABLE D-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SW-01						LSP-SW-01					
SAMPLE NUMBER	114593						114595					
SAMPLING DATE	05/16/93						DUPLICATE 05/16/93					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
3-Nitroaniline	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U		
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U		
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
4-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
4-Nitroaniline	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U		
4-Nitrophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U		
Acenaphthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Acenaphthylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Benzo(a)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Benzoic acid	UNFI	50.000	ug/L	C	U	UNFI	50.000	ug/L	C	U		
Benzyl alcohol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Carbazole	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Chrysene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Di-n-butyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Di-n-octyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Dibenzo-furan	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Diethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Dimethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Fluorene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Hexachlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Hexachlorobutadiene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Hexachloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Isophorone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Naphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Nitrobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		
Pentachlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U		
Phenanthrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U		

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TABLE D-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	LSP-SW-01				LSP-SW-01					
SAMPLE NUMBER	114593				114595					
SAMPLING DATE	05/16/93				DUPLICATE					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS		
<u>Semivolatile Organics</u>										
Phenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
Pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
bis(2-Ethylhexyl) phthalate	UNFI	2.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
p-Chloroaniline	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U
<u>Pesticide Organics/PCBs</u>										
4,4'-DDD	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
4,4'-DDE	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
4,4'-DDT	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Aldrin	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Aroclor-1016	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1221	UNFI	2.000	ug/L	C	U	UNFI	2.000	ug/L	C	U
Aroclor-1232	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1242	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1248	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1254	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Aroclor-1260	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U
Dieldrin	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan II	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan sulfate	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endosulfan-I	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Endrin	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endrin aldehyde	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Endrin ketone	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U
Heptachlor	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Heptachlor epoxide	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
Methoxychlor	UNFI	0.500	ug/L	C	U	UNFI	0.500	ug/L	C	U
Toxaphene	UNFI	5.000	ug/L	C	U	UNFI	5.000	ug/L	C	U
alpha-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.002	ug/L	C	U
alpha-Chlordane	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
beta-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
delta-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U	UNFI	0.004	ug/L	C	U
gamma-Chlordane	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U
<u>General Chemistry</u>										
Alkalinity	UNFI	63.000	mg/L	B	-	UNFI	60.000	mg/L	B	-

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TABLE D-9
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	LSP-SW-01 114593					LSP-SW-01 114595 DUPLICATE 05/16/93				
SAMPLING DATE	05/16/93									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>										
Ammonia	UNFI	0.100	mg/L	B	U	UNFI	0.100	mg/L	B	U
Chloride	UNFI	72.000	mg/L	B	-	UNFI	68.600	mg/L	B	-
Fluoride	UNFI	0.110	mg/L	B	R	UNFI	0.100	mg/L	B	-
Nitrate	UNFI	0.100	mg/L	B	R	UNFI	0.100	mg/L	B	R
Phenols	UNFI	0.010	mg/L	B	U	UNFI	0.010	mg/L	B	U
Sulfate	UNFI	39.300	mg/L	B	-	UNFI	43.000	mg/L	B	-
Sulfide	UNFI	0.500	mg/L	B	U	UNFI	0.500	mg/L	B	U
Total Kjeldahl Nitrogen	UNFI	0.170	mg/L	B	-	UNFI	0.150	mg/L	B	-
Total Organic Carbon	UNFI	2.240	mg/L	B	-	UNFI	2.320	mg/L	B	-
Total Organic Halides	UNFI	0.023	mg/L	B	J	UNFI	0.023	mg/L	B	-
Total Organic Nitrogen	UNFI	0.170	mg/L	B	-	UNFI	0.150	mg/L	B	-
Total Phosphorous	UNFI	0.020	mg/L	B	U	UNFI	0.030	mg/L	B	-

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TABLE D-10

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SURFACE WATER ANALYSIS RCRA FACILITY ASSESSMENT
NORTH LINE SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER		
		SP-4	SP-5	SP-6
		WATER	WATER	WATER
		911120-087	911120-088	911120-089

TCLP Metals (mg/l):

Arsenic	5.00	<0.20	<0.20	<0.20
Barium	100.00	<0.20	<0.20	<0.20
Cadmium	1.00	<0.10	<0.10	<0.10
Chromium	5.00	<0.50	<0.50	<0.50
Lead	5.00	<0.20	<0.20	<0.20
Mercury	0.20	<0.0002	<0.0002	<0.0002
Selenium	1.00	<0.557	<0.557	<0.557
Silver	5.00	<0.050	<0.050	<0.050

Total Volatiles Organics (mg/l):

Acetone		0.0165	<0.010	<0.010
Benzene		<0.005	<0.005	<0.005
2-Butanone		0.0529	0.051	0.496
Carbon Disulfide		<0.005	<0.005	<0.005
Carbon Tetrachloride		<0.005	<0.005	<0.005
Chlorobenzene		<0.005	<0.005	<0.005
Chloroethane		NR	NR	NR
Chloromethane		NR	NR	NR
Cyclohexanone		<0.160	<0.160	<0.160
o-Dichlorobenzene		NR	NR	NR
1,1-Dichloroethene		NR	NR	NR
1,2-Dichloroethane		NR	NR	NR
trans-1,2-Dichloroethylene		NR	NR	NR
Ethyl Acetate		<0.020	<0.020	<0.020
Ethyl Benzene		<0.005	<0.005	<0.005
Ethyl Ether		<0.005	<0.005	<0.005
Methylene Chloride		<0.005	<0.005	<0.005
4-Methyl-2-Pentanone		<0.010	<0.010	<0.010
2-Nitropropane		<0.070	<0.070	<0.070
Tetrachloroethylene		<0.005	<0.005	<0.005
Toluene		<0.005	<0.005	<0.005
Trichloroethene		<0.005	<0.005	<0.005
1,1,1-Trichloroethane		<0.005	<0.005	<0.005
1,1,2-Trichloroethane		<0.005	<0.005	<0.005
Trichlorofluoromethane		<0.005	<0.005	<0.005
Trichlorotrifluoroethane		<0.005	<0.005	<0.005
Vinyl Chloride		NR	NR	NR
m,p-Xylenes		NR	NR	NR
o-Xylene		NR	NR	NR
Xylenes (Total)		<0.005	<0.005	<0.005

NR = Analysis not requested on this sample

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-5173**TABLE D-10**
(Continued)**SURFACE WATER ANALYSIS RCRA FACILITY ASSESSMENT**
NORTH LINE SLUDGE POND

ANALYTE	HAZARDOUS WASTE THRESHOLD	SAMPLE LOCATION, DEPTH (ft), AND NUMBER		
		SP-4	SP-5	SP-6
		WATER	WATER	WATER
		911120-087	911120-088	911120-089

TCLP Volatile Organics (mg/l):

Benzene	0.50	<0.025	<0.025
2-Butanone	200.00	<0.050	<0.050
Carbon Tetrachloride	0.50	<0.025	<0.025
Chlorobenzene	100.00	<0.025	<0.025
Chloroform	6.00	<0.025	<0.025
1,4-Dichlorobenzene	7.50	NR	NR
1,2-Dichloroethane	0.50	<0.025	<0.025
1,1-Dichlorethylene	0.70	<0.025	<0.025
Tetrachloroethylene	0.70	<0.025	<0.025
Trichloroethylene	0.50	<0.025	<0.025
Vinyl Chloride	0.20	<0.050	<0.050

TCLP Semi Volatiles (mg/l):

m,p-Cresol	200.00	<0.020	<0.020	<0.020
o-Cresol	200.00	<0.020	<0.020	<0.020
1,4-Dichlorobenzene	7.50	<0.020	<0.020	<0.020
2,4-Dinitrotoluene	0.13	<0.020	<0.020	<0.020
Hexachlorobenzene	0.13	<0.020	<0.020	<0.020
Hexachloroethane	3.00	<0.020	<0.020	<0.020
Hexachloro-1,3-butadiene	0.50	<0.020	<0.020	<0.020
Nitrobenzene	2.00	<0.020	<0.020	<0.020
Pentachlorophenol	100.00	<0.100	<0.100	<0.100
Pyridine	5.00	<0.020	<0.020	<0.020
2,4,5-Trichlorophenol	400.00	<0.020	<0.020	<0.020
2,4,6-Trichlorophenol	2.00	<0.020	<0.020	<0.020

TCLP Pesticides (mg/l):

Chlordane	0.030	<0.0001	<0.0001
Endrin	0.020	<0.0001	<0.0001
Heptachlor	0.008	<0.00005	<0.00005
Heptachlor Epoxide	0.008	<0.00005	<0.00005
Lindane	0.400	<0.00005	<0.00005
Methoxychlor	10.000	<0.0005	<0.0005
Toxaphene	0.500	<0.001	<0.001

TCLP Herbicides (mg/l):

2,4-D	10.00	<0.001	<0.001
Silvex	1.00	<0.0005	<0.0005

NR = Analysis not requested on this sample

TABLE D-11A
LIME SLUDGE PONDS
RI/FS GROUNDWATER RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1039 003928				1039 003179				1039 003491			
SAMPLING DATE	02/05/89				05/11/88				08/10/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
PU-238	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
PU-239/240	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ
RA-226	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	U	*U	3.000	pCi/L	U
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	UJ	*U	30.000	pCi/L	U	*U	30.000	pCi/L	UJ
TH-228	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-230	*U	1.400	pCi/L	-	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-232	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-TOTAL	*U	4.000	ug/L	U	NA				*U	12.000	ug/L	U
U-234	*U	1.400	pCi/L	-	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-235/236	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-238	*U	1.800	pCi/L	-	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-TOTAL	*U	1.000	ug/L	-	*U	2.000	ug/L	UJ	*U	1.000	ug/L	-

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TABLE D-11A
(Continued)

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PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1039 003733			1041 003924			1041 003180					
SAMPLING DATE	11/20/88			03/01/89			05/11/88					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	10.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	0.200	pCi/L	UJ	*U	1.000	pCi/L	R	*U	1.000	pCi/L	UJ
PU-238	*C	0.060	pCi/L	UJ	*C	1.000	pCi/L	R	*C	1.000	pCi/L	UJ
PU-239/240	*C	0.060	pCi/L	UJ	*C	1.000	pCi/L	R	*C	1.000	pCi/L	UJ
RA-226	*C	0.300	pCi/L	J	*C	1.000	pCi/L	UJ	*C	1.000	pCi/L	J
RA-228	*C	2.300	pCi/L	UJ	*C	3.000	pCi/L	UJ	*C	3.800	pCi/L	-
RU-106	*C	86.000	pCi/L	R	*C	150.000	pCi/L	R	*C	150.000	pCi/L	R
SR-90	*C	1.200	pCi/L	UJ	*C	5.000	pCi/L	UJ	*C	5.000	pCi/L	UJ
TC-99	*C	26.000	pCi/L	UJ	*C	30.000	pCi/L	UJ	*C	30.000	pCi/L	UJ
TH-228	*C	0.700	pCi/L	UJ	*C	1.100	pCi/L	-	*C	1.200	pCi/L	-
TH-230	*C	0.700	pCi/L	UJ	*C	1.400	pCi/L	-	*C	1.600	pCi/L	-
TH-232	*C	0.700	pCi/L	UJ	*C	1.000	pCi/L	-	*C	1.000	pCi/L	U
TH-TOTAL	*C	6.200	ug/L	UJ	*C	8.000	ug/L	-	NA	-	-	-
U-234	*C	0.500	pCi/L	J	*C	2.400	pCi/L	R	*C	1.800	pCi/L	-
U-235/236	*C	0.300	pCi/L	UJ	*C	1.000	pCi/L	-	*C	1.000	pCi/L	U
U-238	*C	0.300	pCi/L	J	*C	2.400	pCi/L	-	*C	2.400	pCi/L	-
U-TOTAL	U	1.800	ug/L	J	*U	8.000	ug/L	-	*U	9.000	ug/L	J

TABLE D-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1041 003490				1041 003732				1042 003922			
SAMPLING DATE	08/10/88				11/17/88				03/01/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
PU-238	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	R
PU-239/240	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	R
RA-226	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	UJ	*U	3.000	pCi/L	UJ
RU-106	*U	150.000	pCi/L	UJ	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	UJ	*U	5.000	pCi/L	UJ	*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	UJ	*U	30.000	pCi/L	UJ	*U	30.000	pCi/L	UJ
TH-228	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
TH-230	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
TH-232	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
TH-TOTAL	*U	10.000	ug/L	UJ	*U	2.000	ug/L	UJ	*U	3.000	ug/L	UJ
U-234	*U	2.100	pCi/L	UJ	*U	1.400	pCi/L	-	*U	9.500	pCi/L	R
U-235/236	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	-	*U	1.000	pCi/L	U
U-238	*U	1.700	pCi/L	UJ	*U	2.100	pCi/L	-	*U	9.700	pCi/L	-
U-TOTAL	*U	6.000	ug/L	-	*U	6.000	ug/L	-	*U	30.000	ug/L	-

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TABLE D-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1042 003182			1042 003416			1042 003723							
SAMPLING DATE	05/11/88			08/09/88			11/17/88							
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ		
CS-137	*U	20.000	pCi/L	R	UNKN	NA	20.000	pCi/L	R	*U	20.000	pCi/L	R	
CS-137	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	U
NP-237	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	UJ
NP-237	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	UJ
PU-238	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	UJ
PU-238	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	UJ
PU-239/240	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	UJ
PU-239/240	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	UJ
RA-226	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	UJ	*U	NA	1.000	pCi/L	U
RA-226	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	UJ	*U	NA	3.000	pCi/L	U
RA-228	*U	3.000	pCi/L	U	UNKN	NA	3.400	pCi/L	J	*U	NA	3.000	pCi/L	U
RA-228	*U	NA	pCi/L	R	UNKN	NA	3.400	pCi/L	J	*U	NA	150.000	pCi/L	R
RU-106	*U	150.000	pCi/L	R	UNKN	NA	150.000	pCi/L	R	*U	NA	150.000	pCi/L	R
RU-106	*U	NA	pCi/L	U	UNKN	NA	150.000	pCi/L	R	*U	NA	5.000	pCi/L	U
SR-90	*U	5.000	pCi/L	U	UNKN	NA	5.000	pCi/L	U	*U	NA	5.000	pCi/L	U
SR-90	*U	NA	pCi/L	U	UNKN	NA	5.000	pCi/L	U	*U	NA	30.000	pCi/L	U
TC-99	*U	30.000	pCi/L	U	UNKN	NA	30.000	pCi/L	U	*U	NA	30.000	pCi/L	U
TC-99	*U	NA	pCi/L	U	UNKN	NA	30.000	pCi/L	U	*U	NA	1.000	pCi/L	U
TH-228	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	U
TH-228	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	U
TH-230	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	U
TH-230	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	U
TH-232	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	1.000	pCi/L	U
TH-232	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	5.000	ug/L	U
TH-TOTAL		NA			UNKN	NA	3.000	ug/L	U	*U	NA	5.000	ug/L	U
TH-TOTAL		NA			UNKN	NA	3.000	ug/L	U	*U	NA	3.300	pCi/L	-
U-234	*U	1.000	pCi/L	U	UNKN	NA	2.500	pCi/L	-	*U	NA	1.000	pCi/L	U
U-234	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	*U	NA	3.200	pCi/L	-
U-235/236	*U	1.000	pCi/L	U	UNKN	NA	2.200	pCi/L	-	*U	NA	11.000	ug/L	-
U-235/236	*U	NA	pCi/L	U	UNKN	NA	6.000	ug/L	-	*U	NA	11.000	ug/L	-
U-238	*U	1.000	pCi/L	U	UNKN	NA	2.200	pCi/L	-	*U	NA	3.200	pCi/L	-
U-238	*U	NA	pCi/L	U	UNKN	NA	2.200	pCi/L	-	*U	NA	3.200	pCi/L	-
U-TOTAL	*U	7.000	ug/L	J	UNKN	NA	6.000	ug/L	-	*U	NA	11.000	ug/L	-
U-TOTAL		NA			UNKN	NA	6.000	ug/L	-					

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TABLE D-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1134 045426	1210 045739	1229 045780
SAMPLING DATE	10/18/89	10/22/89	10/23/89
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS
U-TOTAL	*U	21.000	ug/L
		VQ	
		-	
	*U	8.400	ug/L
		VQ	
		-	
	*U	58.000	ug/L
		VQ	J

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TABLE D-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2042 066845			2042 003921			2042 004036 DUPLICATE 03/01/89					
SAMPLING DATE	01/05/90			03/01/89								
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-238		NA			*U	1.000	pCi/L	R	*U	1.000	pCi/L	R
PU-239/240		NA			*U	1.000	pCi/L	R	*U	1.000	pCi/L	R
RA-226		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
RA-228		NA			*U	3.000	pCi/L	U	*U	3.000	pCi/L	U
RU-106		NA			*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90		NA			*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
TC-99		NA			*U	30.000	pCi/L	U	*U	30.000	pCi/L	U
TC-99	UNKN	30.000	pCi/L	U		NA				NA		
TH-228		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-228	UNKN	1.000	pCi/L	U		NA				NA		
TH-230		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-230	UNKN	1.240	pCi/L	J		NA				NA		
TH-232		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-TOTAL		NA			*U	3.000	ug/L	D	*U	3.000	ug/L	D
U-234		NA			*U	1.200	pCi/L	R	*U	1.200	pCi/L	R
U-234	UNKN	1.910	pCi/L	R		NA				NA		
U-235	UNKN	1.000	pCi/L	U		NA				NA		
U-235/236		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-238		NA			*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-238	UNKN	1.870	pCi/L	-		NA				NA		
U-TOTAL		NA			*U	3.000	ug/L	-	*U	3.000	ug/L	-
U-TOTAL	UNKN	7.450	ug/L	J		NA				NA		

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TABLE D-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2042 003150				2042 003415				2042 003722			
SAMPLING DATE	05/04/88				08/09/88				11/17/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
PU-238	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
PU-239/240	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
RA-226	*U	1.000	pCi/L	U	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	UJ
RA-228	*U	3.000	pCi/L	U	*U	3.000	pCi/L	U	*U	3.000	pCi/L	U
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U	*U	5.000	pCi/L	U
TC-99	*U	30.000	pCi/L	UJ	*U	30.000	pCi/L	U	*U	30.000	pCi/L	U
TH-228	*U	1.600	pCi/L	J	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-230	*U	1.000	pCi/L	J	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-232	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
TH-TOTAL	NA				*U	3.000	pCi/L	U	*U	2.000	ug/L	-
U-234	*U	1.400	pCi/L	J	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-235/236	*U	1.000	pCi/L	UJ	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-238	*U	1.500	pCi/L	J	*U	1.000	pCi/L	U	*U	1.000	pCi/L	U
U-TOTAL	*U	4.000	ug/L	J	*U	2.000	pCi/L	-	*U	2.000	ug/L	-

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(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4101 003918			4101 003207			4101 003208 DUPLICATE 05/19/88							
SAMPLING DATE	03/15/89			05/19/88										
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ		
CS-137	*U	20.000	pCi/L	R	UNKN	NA	20.000	pCi/L	R	UNKN	NA	20.000	pCi/L	R
CS-137	*U	NA	pCi/L	UJ	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
NP-237	*U	1.000	pCi/L	UJ	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
NP-237	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
PU-238	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
PU-238	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
PU-239/240	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
PU-239/240	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
RA-226	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
RA-226	*U	NA	pCi/L	UJ	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
RA-228	*U	3.000	pCi/L	UJ	UNKN	NA	3.000	pCi/L	U	UNKN	NA	4.500	pCi/L	J
RA-228	*U	NA	pCi/L	U	UNKN	NA	3.000	pCi/L	U	UNKN	NA	150.000	pCi/L	R
RU-106	*U	150.000	pCi/L	R	UNKN	NA	150.000	pCi/L	R	UNKN	NA	150.000	pCi/L	R
RU-106	*U	NA	pCi/L	U	UNKN	NA	150.000	pCi/L	R	UNKN	NA	5.000	pCi/L	U
SR-90	*U	5.000	pCi/L	U	UNKN	NA	5.000	pCi/L	U	UNKN	NA	5.000	pCi/L	U
SR-90	*U	NA	pCi/L	U	UNKN	NA	5.000	pCi/L	U	UNKN	NA	30.000	pCi/L	U
TC-99	*U	33.000	pCi/L	UJ	UNKN	NA	30.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
TC-99	*U	NA	pCi/L	UJ	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
TH-228	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
TH-228	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
TH-230	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
TH-230	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
TH-232	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
TH-232	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
TH-TOTAL	*U	7.000	ug/L	D	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
U-234	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
U-234	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
U-235/236	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
U-235/236	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
U-238	*U	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
U-238	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U
U-TOTAL	*U	0.100	ug/L	U	UNKN	NA	1.000	ug/L	U	UNKN	NA	1.000	ug/L	U
U-TOTAL	*U	NA	pCi/L	U	UNKN	NA	1.000	pCi/L	U	UNKN	NA	1.000	pCi/L	U

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TABLE D-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4101 003409				4101 003410 DUPLICATE 08/08/88				4101 003719			
SAMPLING DATE	08/08/88								11/18/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R	*U	20.000	pCi/L	R
NP-237	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU
PU-238	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU
PU-239/240	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU
RA-226	*U	1.900	pCi/L	R	*U	1.700	pCi/L	R	*U	1.000	pCi/L	UU
RA-228	*U	3.000	pCi/L	UU	*U	3.000	pCi/L	UU	*U	3.000	pCi/L	UU
RU-106	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R	*U	150.000	pCi/L	R
SR-90	*U	5.000	pCi/L	UU	*U	5.000	pCi/L	UU	*U	5.000	pCi/L	UU
TC-99	*U	30.000	pCi/L	UU	*U	30.000	pCi/L	UU	*U	30.000	pCi/L	UU
TH-228	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU
TH-230	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU
TH-232	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU
TH-TOTAL	*U	3.000	ug/L	UU	*U	3.000	ug/L	UU	*U	2.000	ug/L	UU
U-234	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU
U-235/236	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU
U-238	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU	*U	1.000	pCi/L	UU
U-TOTAL	*U	1.000	ug/L	UU	*U	1.000	ug/L	UU	*U	1.000	ug/L	UU

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TABLE D-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4101 066736			4102 003919			4102 003205					
SAMPLING DATE	12/07/89			02/23/89			05/19/88					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			*U	20.000	pCi/L	R	UNKN	NA	pCi/L	R
CS-137		NA			*U	NA	1.000	pCi/L	U	UNKN	NA	pCi/L
NP-237		NA			*U	NA	1.000	pCi/L	U	UNKN	1.000	pCi/L
NP-237		NA			*U	NA	1.000	pCi/L	U	UNKN	NA	pCi/L
PU-238		NA			*U	NA	1.000	pCi/L	U	UNKN	1.000	pCi/L
PU-238		NA			*U	NA	1.000	pCi/L	U	UNKN	NA	pCi/L
PU-239/240		NA			*U	NA	1.000	pCi/L	U	UNKN	1.000	pCi/L
PU-239/240		NA			*U	NA	1.000	pCi/L	U	UNKN	NA	pCi/L
RA-226		NA			*U	NA	1.000	pCi/L	U	UNKN	NA	pCi/L
RA-226		NA			*U	NA	3.000	pCi/L	UJ	UNKN	1.000	pCi/L
RA-228		NA			*U	NA	150.000	pCi/L	R	UNKN	3.000	pCi/L
RA-228		NA			*U	NA	150.000	pCi/L	R	UNKN	NA	pCi/L
RU-106		NA			*U	NA	5.000	pCi/L	U	UNKN	150.000	pCi/L
RU-106		NA			*U	NA	5.000	pCi/L	U	UNKN	NA	pCi/L
SR-90		NA			*U	NA	30.000	pCi/L	U	UNKN	5.000	pCi/L
SR-90		NA			*U	NA	30.000	pCi/L	U	UNKN	NA	pCi/L
TC-99		NA			UNKN	30.000	pCi/L	R	UNKN	30.000	pCi/L	U
TC-99		NA			*U	NA	1.000	pCi/L	U	UNKN	NA	pCi/L
TH-228		NA			UNKN	1.000	pCi/L	R	UNKN	1.000	pCi/L	U
TH-228		NA			*U	NA	1.000	pCi/L	U	UNKN	NA	pCi/L
TH-230		NA			UNKN	1.000	pCi/L	R	UNKN	1.000	pCi/L	U
TH-230		NA			*U	NA	1.000	pCi/L	U	UNKN	NA	pCi/L
TH-232		NA			UNKN	NA	1.000	pCi/L	U	UNKN	1.000	pCi/L
TH-232		NA			*U	NA	3.000	ug/L	U	UNKN	NA	pCi/L
TH-TOTAL		NA			*U	NA	1.600	pCi/L	-	UNKN	1.000	pCi/L
U-234		NA			UNKN	1.000	pCi/L	R	UNKN	NA	pCi/L	U
U-234		NA			*U	NA	1.000	pCi/L	U	UNKN	1.000	pCi/L
U-235/236		NA			UNKN	1.000	pCi/L	R	UNKN	NA	pCi/L	U
U-235/236		NA			*U	NA	1.000	pCi/L	-	UNKN	1.000	pCi/L
U-238		NA			UNKN	1.000	pCi/L	R	UNKN	NA	pCi/L	U
U-238		NA			*U	NA	1.000	pCi/L	-	UNKN	1.000	pCi/L
U-TOTAL		NA			UNKN	1.000	ug/L	R	UNKN	NA	pCi/L	U
U-TOTAL		1.000	ug/L	R	*U	NA	1.000	ug/L	U	UNKN	1.000	ug/L

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C2173

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TABLE D-11A
(Continued)

PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4102 003206 DUPLICATE 05/19/88				4102 003412 08/08/88				4102 003413 DUPLICATE 08/08/88			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	*U	20.000	pCi/L	R	UNKN	NA	pCi/L	R	UNKN	NA	pCi/L	R
CS-137		NA				NA				NA		
NP-237	*U	1.000	pCi/L	U	UNKN	1.000	pCi/L	UJ	UNKN	1.000	pCi/L	UJ
NP-237		NA				NA				NA		
PU-238	*U	1.000	pCi/L	U	UNKN	NA	pCi/L	U	UNKN	1.000	pCi/L	U
PU-238		NA				NA				NA		
PU-239/240	*U	1.000	pCi/L	U	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U
PU-239/240		NA				NA				NA		
RA-226	*U	1.000	pCi/L	U	UNKN	NA	pCi/L	R	UNKN	1.000	pCi/L	R
RA-226		NA				NA				NA		
RA-228	*U	3.000	pCi/L	U	UNKN	3.000	pCi/L	U	UNKN	3.000	pCi/L	U
RA-228		NA				NA				NA		
RU-106	*U	150.000	pCi/L	R	UNKN	150.000	pCi/L	R	UNKN	150.000	pCi/L	R
RU-106		NA				NA				NA		
SR-90	*U	5.000	pCi/L	U	UNKN	5.000	pCi/L	U	UNKN	5.000	pCi/L	U
SR-90		NA				NA				NA		
TC-99	*U	30.000	pCi/L	U	UNKN	30.000	pCi/L	UJ	UNKN	30.000	pCi/L	UJ
TC-99		NA				NA				NA		
TH-228	*U	1.000	pCi/L	U	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U
TH-228		NA				NA				NA		
TH-230	*U	1.000	pCi/L	U	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U
TH-230		NA				NA				NA		
TH-232	*U	1.000	pCi/L	U	UNKN	NA	pCi/L	U	UNKN	1.000	pCi/L	U
TH-232		NA				NA				NA		
TH-TOTAL		NA			UNKN	1.000	pCi/L	U	UNKN	4.000	ug/L	U
U-234	*U	1.000	pCi/L	U	UNKN	NA	ug/L	U	UNKN	NA	1.000	pCi/L
U-234		NA				NA				NA		
U-235/236	*U	1.000	pCi/L	U	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	U
U-235/236		NA				NA				NA		
U-238	*U	1.000	pCi/L	U	UNKN	NA	pCi/L	U	UNKN	NA	1.000	pCi/L
U-238		NA				NA				NA		
U-TOTAL	*U	1.000	ug/L	U	UNKN	1.000	ug/L	U	UNKN	1.000	ug/L	U
U-TOTAL		NA				NA				NA		

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TABLE D-11A
(Continued)

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PHASE I - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4102 003720				4102 066738			
SAMPLING DATE	11/18/88				12/07/89			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNKN	20.000	pCi/L	R		NA		
NP-237	UNKN	1.000	pCi/L	U		NA		
PU-238	UNKN	1.000	pCi/L	U		NA		
PU-239/240	UNKN	1.000	pCi/L	U		NA		
RA-226	UNKN	1.000	pCi/L	U		NA		
RA-228	UNKN	3.000	pCi/L	U		NA		
RU-106	UNKN	150.000	pCi/L	R		NA		
SR-90	UNKN	5.000	pCi/L	U		NA		
TC-99	UNKN	30.000	pCi/L	U	UNKN	30.000	pCi/L	R
TH-228	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	R
TH-230	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	R
TH-232	UNKN	1.000	pCi/L	U		NA		
TH-TOTAL	UNKN	3.000	ug/L	U		NA		
U-234	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	R
U-235/236	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	R
U-238	UNKN	1.000	pCi/L	U	UNKN	1.000	pCi/L	R
U-TOTAL	UNKN	1.000	ug/L	U	UNKN	1.000	ug/L	R

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1039	1039	1039				
SAMPLE NUMBER	003179	003491	003733				
SAMPLING DATE	05/11/88	08/10/88	11/20/88				
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	
<u>Inorganics</u>							
Arsenic	FILT	NA	*F	0.010 mg/L C U	FILT	NA	0.002 mg/L C UJ
Arsenic	FILT	0.200 mg/L C U	*F	0.300 mg/L C -	FILT	NA	0.254 mg/L C -
Barium	FILT	0.459 mg/L C -	*F	0.005 mg/L C U	FILT	NA	0.002 mg/L C U
Barium	FILT	0.005 mg/L C U	*F	240.000 mg/L C -	FILT	NA	186.000 mg/L C -
Cadmium	FILT	NA	*F	0.010 mg/L C U	FILT	NA	0.020 mg/L C U
Cadmium	FILT	0.020 mg/L C U	*F	0.030 mg/L C U	FILT	NA	0.010 mg/L C U
Calcium	FILT	0.016 mg/L C -	*F	NA	FILT	NA	0.122 mg/L C -
Calcium	FILT	0.560 mg/L C -	*F	0.005 mg/L C U	FILT	NA	0.003 mg/L C J
Chromium	FILT	NA	*F	100.000 mg/L C -	FILT	NA	71.200 mg/L C -
Chromium	FILT	109.600 mg/L C -	*F	0.790 mg/L C -	FILT	NA	0.643 mg/L C -
Copper	FILT	NA	*F	0.000 mg/L C U	FILT	NA	0.000 mg/L C U
Copper	FILT	0.986 mg/L C -	*F	NA	FILT	NA	0.020 mg/L C U
Iron	FILT	NA	*F	1.800 mg/L C -	FILT	NA	0.040 mg/L C U
Iron	FILT	0.560 mg/L C -	*F	0.000 mg/L C U	FILT	NA	0.020 mg/L C U
Lead	FILT	NA	*F	0.005 mg/L C U	FILT	NA	0.000 mg/L C U
Lead	FILT	0.050 mg/L C U	*F	NA	FILT	NA	0.000 mg/L C U
Magnesium	FILT	NA	*F	5.000 mg/L C U	FILT	NA	0.020 mg/L C U
Magnesium	FILT	109.600 mg/L C -	*F	0.005 mg/L C U	FILT	NA	0.671 mg/L C -
Manganese	FILT	NA	*F	NA	FILT	NA	0.002 mg/L C UJ
Manganese	FILT	0.986 mg/L C -	*F	0.010 mg/L C U	FILT	NA	0.001 mg/L C U
Mercury	FILT	NA	*F	NA	FILT	NA	0.000 mg/L C U
Mercury	FILT	0.000 mg/L C UJ	*F	0.000 mg/L C U	FILT	NA	0.000 mg/L C U
Molybdenum	FILT	NA	*F	0.050 mg/L C U	FILT	NA	0.000 mg/L C U
Molybdenum	FILT	0.020 mg/L C U	*F	NA	FILT	NA	0.020 mg/L C U
Nickel	FILT	NA	*F	0.040 mg/L C U	FILT	NA	0.020 mg/L C U
Nickel	FILT	0.020 mg/L C U	*F	NA	FILT	NA	0.020 mg/L C U
Potassium	FILT	NA	*F	5.000 mg/L C U	FILT	NA	0.020 mg/L C U
Potassium	FILT	0.020 mg/L C U	*F	NA	FILT	NA	0.000 mg/L C U
Selenium	FILT	NA	*F	0.005 mg/L C U	FILT	NA	0.000 mg/L C U
Selenium	FILT	1.330 mg/L C -	*F	NA	FILT	NA	0.000 mg/L C U
Silver	FILT	NA	*F	0.005 mg/L C U	FILT	NA	0.000 mg/L C U
Silver	FILT	0.200 mg/L C U	*F	NA	FILT	NA	0.000 mg/L C U
Sodium	FILT	NA	*F	0.010 mg/L C U	FILT	NA	0.001 mg/L C U
Sodium	FILT	243.900 mg/L C -	*F	NA	FILT	NA	0.000 mg/L C U
<u>General Chemistry</u>							
Ammonia	UNFI	0.100 mg/L C UJ	UNFI	0.300 mg/L C -	UNFI	0.100 mg/L C UJ	-5123
Chloride	UNFI	NA	U	860.000 mg/L C -	UNFI	NA	750.000 mg/L C J
Chloride	UNFI	1095.000 mg/L C -	NA	NA	UNFI	0.350 mg/L C -	FERMP-OU02-4 DRAFT
Fluoride	UNFI	0.460 mg/L C J	UNFI	3.500 mg/L C -	UNFI	0.100 mg/L C UJ	February 18, 1994
Nitrate	UNFI	0.100 mg/L C R	UNFI	0.130 mg/L C J			

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1039	SAMPLE NUMBER	003179	SAMPLING DATE	05/11/88	CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>																					
Phenols	UNFI	0.020	mg/L	C	J		UNFI	0.050	mg/L	C	U		UNFI	0.010	mg/L	C	UJ				
Phosphorus	UNFI	0.050	mg/L	C	UJ		UNFI	NA					UNFI	0.028	mg/L	C	J				
Sulfate	UNFI	119.000	mg/L	C	J		UNFI	130.000	mg/L	C	-		UNFI	144.000	mg/L	C	J				
Total Kjeldahl Nitrogen		NA					UNFI	21.000	mg/L	C	-		UNFI	0.300	mg/L	C	J				
Total Organic Halides		NA					UNFI	NA					UNFI	0.050	mg/L	C	J				
Total Organic Nitrogen	UNFI	0.100	mg/L	C	UJ		UNFI	NA					UNFI	0.300	mg/L	C	J				

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1039 003928				1041 003180				1041 003490							
SAMPLING DATE	02/05/89				05/11/88				08/10/88							
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>																
Arsenic	FILT	NA				FILT	NA				*F	0.010	mg/L	C	U	
Arsenic		0.002	mg/L	C	U		0.200	mg/L	C	U		NA	0.200	mg/L	C	-
Barium	FILT	NA				FILT	NA				*F	NA	0.005	mg/L	C	U
Barium		0.191	mg/L	C	-		0.113	mg/L	C	-		NA	150,000	mg/L	C	-
Cadmium	FILT	NA				FILT	NA					NA	0.010	mg/L	C	U
Cadmium		0.010	mg/L	C	-		0.005	mg/L	C	U		NA	0.030	mg/L	C	U
Calcium	FILT	NA				FILT	NA					NA	0.100	mg/L	C	U
Calcium		168.000	mg/L	C	-		172.000	mg/L	C	-		NA	0.005	mg/L	C	U
Chromium	FILT	NA				FILT	NA					NA	0.050	mg/L	C	U
Chromium		0.035	mg/L	C	-		0.020	mg/L	C	U		NA	0.360	mg/L	C	-
Copper	FILT	NA				FILT	NA					NA	0.017	mg/L	C	-
Copper		0.016	mg/L	C	-		0.017	mg/L	C	-		NA	0.000	mg/L	C	U
Iron	FILT	NA				FILT	NA					NA	0.210	mg/L	C	-
Iron		0.097	mg/L	C	-		0.050	mg/L	C	U		NA	0.100	mg/L	C	U
Lead	FILT	NA				FILT	NA					NA	0.005	mg/L	C	U
Lead		0.002	mg/L	C	UJ		0.000	mg/L	C	UJ		NA	61.000	mg/L	C	-
Magnesium	FILT	NA				FILT	NA					NA	0.020	mg/L	C	U
Magnesium		70.000	mg/L	C	-		70.500	mg/L	C	-		NA	0.360	mg/L	C	-
Manganese	FILT	NA				FILT	NA					NA	0.481	mg/L	C	-
Manganese		0.481	mg/L	C	-		0.614	mg/L	C	-		NA	0.000	mg/L	C	U
Mercury	FILT	NA				FILT	NA					NA	0.000	mg/L	C	U
Mercury		0.000	mg/L	C	-		0.000	mg/L	C	UJ		NA	0.050	mg/L	C	U
Molybdenum	FILT	NA				FILT	NA					NA	0.020	mg/L	C	U
Molybdenum		0.020	mg/L	C	U		0.020	mg/L	C	U		NA	0.040	mg/L	C	U
Nickel	FILT	NA				FILT	NA					NA	0.023	mg/L	C	-
Nickel		0.023	mg/L	C	-		0.020	mg/L	C	U		NA	5.000	mg/L	C	U
Potassium	FILT	NA				FILT	NA					NA	0.792	mg/L	C	J
Potassium		0.792	mg/L	C	J		0.480	mg/L	C	-		NA	0.005	mg/L	C	U
Selenium	FILT	NA				FILT	NA					NA	0.002	mg/L	C	UJ
Selenium		0.002	mg/L	C	UJ		0.020	mg/L	C	U		NA	0.010	mg/L	C	U
Silver	FILT	NA				FILT	NA					NA	218.000	mg/L	C	-
Silver		0.001	mg/L	C	U		0.060	mg/L	C	U		NA	28.800	mg/L	C	-
Sodium	FILT	NA				FILT	NA					NA	26.000	mg/L	C	-
Sodium		218.000	mg/L	C	-		0.410	mg/L	C	-		NA	1.800	mg/L	C	-
<u>General Chemistry</u>																
Ammonia	UNFI	NA				UNFI	NA				U	0.300	mg/L	C	U	
Ammonia		0.100	mg/L	C	U		0.100	mg/L	C	UJ		NA	170,000	mg/L	C	-
Chloride	UNFI	NA				UNFI	NA					NA	700,000	mg/L	C	-
Chloride		700,000	mg/L	C	-		495,000	mg/L	C	-		UNFI	1.800	mg/L	C	-
Fluoride	UNFI	0.160	mg/L	C	J	UNFI	0.410	mg/L	C	J						

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	1039	1041	1041
SAMPLE NUMBER	003928	003180	003490
SAMPLING DATE	02/05/89	05/11/88	08/10/88
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ
<u>General Chemistry</u>			
Nitrate	UNFI	0.100	mg/L C UJ
Phenols	UNFI	0.011	mg/L C J
Phosphorus	UNFI	0.050	mg/L C J
Sulfate	UNFI	131.000	mg/L C -
Total Kjeldahl Nitrogen	UNFI	0.103	mg/L C J
Total Organic Halides	UNFI	0.050	mg/L C U
Total Organic Nitrogen	UNFI	0.103	mg/L C J
	UNFI	0.100	mg/L C UJ
	UNFI	0.020	mg/L C J
	UNFI	0.270	mg/L C J
	UNFI	113.000	mg/L C J
	NA	NA	
	UNFI	56.000	mg/L C -
	UNFI	15.000	mg/L C U
		NA	
		NA	

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1041 003732			1041 003924			1042 003182								
SAMPLING DATE	11/17/88			03/01/89			05/11/88								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Arsenic	FILT	0.002	mg/L	C	U	FILT	0.003	mg/L	C	U	FILT	0.200	mg/L	C	U
Barium	FILT	0.180	mg/L	C	U	FILT	0.140	mg/L	C	U	FILT	0.284	mg/L	C	U
Cadmium	FILT	0.002	mg/L	C	U	FILT	0.007	mg/L	C	U	FILT	0.005	mg/L	C	U
Calcium	FILT	196.000	mg/L	C	U	FILT	180.000	mg/L	C	U	FILT	92.900	mg/L	C	U
Chromium	FILT	0.020	mg/L	C	U	FILT	0.030	mg/L	C	U	FILT	0.020	mg/L	C	U
Copper	FILT	0.010	mg/L	C	U	FILT	0.010	mg/L	C	U	FILT	0.010	mg/L	C	U
Iron	FILT	0.572	mg/L	C	U	FILT	0.040	mg/L	C	U	FILT	1.600	mg/L	C	U
Lead	FILT	0.002	mg/L	C	U	FILT	0.002	mg/L	C	U	FILT	0.050	mg/L	C	U
Magnesium	FILT	72.200	mg/L	C	U	FILT	70.000	mg/L	C	U	FILT	30.100	mg/L	C	U
Manganese	FILT	0.670	mg/L	C	U	FILT	0.610	mg/L	C	U	FILT	0.205	mg/L	C	U
Mercury	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	C	U
Molybdenum	FILT	0.030	mg/L	C	U	FILT	0.020	mg/L	C	U	FILT	0.023	mg/L	C	U
Nickel	FILT	0.026	mg/L	C	U	FILT	0.030	mg/L	C	U	FILT	0.020	mg/L	C	U
Potassium	FILT	0.490	mg/L	C	U	FILT	0.500	mg/L	C	U	FILT	0.910	mg/L	C	U
Selenium	FILT	0.002	mg/L	C	U	FILT	0.005	mg/L	C	U	FILT	0.200	mg/L	C	U
Silver	FILT	0.001	mg/L	C	U	FILT	0.010	mg/L	C	U	FILT	0.010	mg/L	C	U
Sodium	FILT	32.900	mg/L	C	U	FILT	41.000	mg/L	C	U	FILT	25.600	mg/L	C	U
<u>General Chemistry</u>															
Ammonia	UNFI	0.120	mg/L	C	U	UNFI	0.200	mg/L	C	U	UNFI	0.500	mg/L	C	U
Chloride	UNFI	259.000	mg/L	C	U	UNFI	230.000	mg/L	C	U	UNFI	59.800	mg/L	C	U
Fluoride	UNFI	0.500	mg/L	C	U	UNFI	0.300	mg/L	C	U	UNFI	0.560	mg/L	C	U
Nitrate	UNFI	0.100	mg/L	C	U	UNFI	0.020	mg/L	C	U	UNFI	0.100	mg/L	C	U
Phenols	UNFI	0.014	mg/L	C	U	UNFI	0.005	mg/L	C	U	UNFI	0.020	mg/L	C	U
Phosphorus	UNFI	0.536	mg/L	C	U	UNFI	0.020	mg/L	C	U	UNFI	0.190	mg/L	C	U
Sulfate	UNFI	116.000	mg/L	C	U	UNFI	76.000	mg/L	C	U	UNFI	75.000	mg/L	C	U
Total Kjeldahl Nitrogen	UNFI	0.820	mg/L	C	U	UNFI	0.500	mg/L	C	U	NA	NA			
Total Organic Halides	UNFI	0.050	mg/L	C	U	UNFI	0.300	mg/L	C	U	UNFI	0.100	mg/L	C	U
Total Organic Nitrogen	UNFI	0.700	mg/L	C	U	UNFI	0.300	mg/L	C	U	UNFI	0.100	mg/L	C	U

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1042 003416				1042 003723				1042 003922			
SAMPLING DATE	08/09/88				11/17/88				03/01/89			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Inorganics</u>												
Aluminum	*F	0.200	mg/L	C U		NA				NA		
Antimony	*F	0.060	mg/L	C U		NA				NA		
Arsenic	*F	0.010	mg/L	C U		NA				NA		
Arsenic					FILT	0.002	mg/L	C U	FILT	0.003	mg/L	C U
Barium		NA	0.200	mg/L	C U		NA		FILT	NA	0.087	mg/L C -
Barium		NA			FILT	0.248	mg/L	C -	FILT	NA		
Beryllium	*F	0.005	mg/L	C U		NA				NA		
Cadmium	*F	0.005	mg/L	C U		NA				NA		
Cadmium		NA			FILT	0.002	mg/L	C U	FILT	NA	0.005	mg/L C U
Calcium	*F	100.000	mg/L	C -		NA				NA	120.000	mg/L C -
Calcium		NA			FILT	109.000	mg/L	C -	FILT	NA		
Chromium	*F	0.010	mg/L	C U		NA				NA	0.020	mg/L C -
Chromium		NA			FILT	0.020	mg/L	C U	FILT	NA		
Cobalt	*F	0.050	mg/L	C U		NA				NA		
Copper	*F	0.030	mg/L	C U		NA				NA		
Iron		NA	0.300	mg/L	C -	FILT	0.010	mg/L	C U	FILT	NA	0.010 mg/L C U
Iron		NA			FILT	0.567	mg/L	C -	FILT	NA	0.050	mg/L C -
Lead	*F	0.005	mg/L	C U		NA				NA		
Lead		NA			FILT	0.004	mg/L	C J	FILT	NA	0.002	mg/L C U
Magnesium	*F	36.000	mg/L	C -		NA				NA	47.000	mg/L C -
Magnesium		NA			FILT	37.400	mg/L	C -	FILT	NA		
Manganese	*F	0.120	mg/L	C -		NA				NA	0.029	mg/L C -
Manganese		NA			FILT	0.104	mg/L	C -	FILT	NA		
Mercury	*F	0.000	mg/L	C U		FILT	NA			NA	0.000	mg/L C UJ
Mercury		NA			FILT	0.000	mg/L	C U	FILT	NA		
Molybdenum	*F	0.050	mg/L	C U		NA				NA	0.020	mg/L C -
Molybdenum		NA			FILT	0.022	mg/L	C -	FILT	NA		
Nickel	*F	0.040	mg/L	C U		NA				NA	0.030	mg/L C U
Nickel		NA			FILT	0.020	mg/L	C U	FILT	NA		
Potassium	*F	5.000	mg/L	C U		NA				NA	0.670	mg/L C -
Potassium		NA			FILT	0.720	mg/L	C -	FILT	NA		
Selenium	*F	0.005	mg/L	C U		NA				NA	0.005	mg/L C U
Selenium		NA			FILT	0.002	mg/L	C UJ	FILT	NA		
Silver	*F	0.010	mg/L	C U		NA				NA	0.010	mg/L C U
Silver		NA			FILT	0.001	mg/L	C U	FILT	NA		
Sodium	*F	26.000	mg/L	C -		NA				NA	14.000	mg/L C -
Sodium		NA			FILT	23.800	mg/L	C -	FILT	NA		
Thallium	*F	0.500	mg/L	C U		NA				NA		
Vanadium	*F	0.050	mg/L	C U		NA				NA		
Zinc	*F	0.140	mg/L	C -		NA				NA		
<u>Semivolatile Organics</u>												
Phenol	UNFI	50.000	ug/L	C -		NA				NA		

TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1042 003416	1042 003723	1042 003922			
SAMPLING DATE	08/09/88	11/17/88	03/01/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Ammonia	UNFI	0.300 mg/L C U	UNFI	0.100 mg/L C UJ	UNFI	0.200 mg/L C -
Chloride	UNFI	64.000 mg/L C -	UNFI	57.500 mg/L C J	UNFI	37.000 mg/L C U
Fluoride	UNFI	1.400 mg/L C -	UNFI	0.480 mg/L C -	UNFI	0.200 mg/L C -
Nitrate	UNFI	0.240 mg/L C J	UNFI	0.100 mg/L C R	UNFI	0.490 mg/L C J
Phenols	NA		UNFI	0.014 mg/L C J	UNFI	0.025 mg/L C -
Phenols	UNKN	0.050 mg/L C U	NA		NA	
Phosphorus	NA		UNFI	0.872 mg/L C J	UNFI	0.100 mg/L C -
Sulfate	NA		UNFI	246.000 mg/L C J	UNFI	100.000 mg/L C -
Sulfate	UNKN	80.000 mg/L C J	NA		NA	
Total Kjeldahl Nitrogen	UNFI	15.000 mg/L C U	UNFI	0.510 mg/L C J	UNFI	0.300 mg/L C U
Total Organic Halides	NA		UNFI	0.050 mg/L C U	NA	
Total Organic Nitrogen	UNFI	0.300 mg/L C U	UNFI	0.510 mg/L C -	UNFI	0.100 mg/L C U

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TABLE D-11A
(Continued)

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PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1134 045427	1134 045428	1210 045738			
SAMPLING DATE	10/18/89	01/31/90	10/22/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Nitrate Nitrate	UNFI	NA 0.100 mg/L C U	UNKN	NA 0.100 mg/L C U	UNFI	NA 0.100 mg/L C U

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1210 045740	BORING NUMBER SAMPLE NUMBER	1229 045781	BORING NUMBER SAMPLE NUMBER	1229 045782													
SAMPLING DATE	07/02/90	SAMPLING DATE	10/23/89	SAMPLING DATE	06/30/90													
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ			
<u>General Chemistry</u>																		
Nitrate		UNFI	0.100	mg/L	C	UJ		UNFI	0.100	mg/L	C	U		UNFI	0.100	mg/L	C	UJ

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2042 003150				2042 003415				2042 003722						
SAMPLE NUMBER	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Aluminum	FILT	0.070	mg/L	D	U	FILT	0.200	mg/L	C	U		NA	mg/L	C	U
Antimony	FILT	0.001	mg/L	D	U	FILT	0.060	mg/L	C	U		NA	mg/L	C	U
Arsenic	FILT	0.002	mg/L	D	U	FILT	0.010	mg/L	C	U		0.002	mg/L	C	U
Barium	FILT	0.038	mg/L	D	U	FILT	0.200	mg/L	C	U		0.043	mg/L	C	U
Beryllium	FILT	0.001	mg/L	D	U	FILT	0.005	mg/L	C	U		NA	mg/L	C	U
Cadmium	FILT	0.002	mg/L	D	U	FILT	0.005	mg/L	C	U		0.002	mg/L	C	U
Calcium	FILT	79.800	mg/L	D	U	FILT	100.000	mg/L	C	U		106.000	mg/L	C	U
Chromium	FILT	0.020	mg/L	D	U	FILT	0.010	mg/L	C	U		0.020	mg/L	C	U
Cobalt	FILT	0.010	mg/L	D	U	FILT	0.050	mg/L	C	U		NA	mg/L	C	U
Copper	FILT	0.010	mg/L	D	U	FILT	0.030	mg/L	C	U		0.010	mg/L	C	U
Cyanide	UNKN	0.010	mg/L	D	U		NA					NA	mg/L	C	U
Iron	FILT	0.186	mg/L	D	U	FILT	0.200	mg/L	C	U		0.321	mg/L	C	U
Lead	FILT	0.002	mg/L	D	U	FILT	0.005	mg/L	C	U		0.002	mg/L	C	U
Magnesium	FILT	21.910	mg/L	D	U	FILT	25.000	mg/L	C	U		25.500	mg/L	C	U
Manganese	FILT	0.233	mg/L	D	U	FILT	0.110	mg/L	C	U		0.113	mg/L	C	U
Mercury	FILT	0.000	mg/L	D	U	FILT	0.000	mg/L	C	U		0.000	mg/L	C	U
Molybdenum	FILT	0.020	mg/L	D	U	FILT	0.050	mg/L	C	U		0.022	mg/L	C	U
Nickel	FILT	0.020	mg/L	D	U	FILT	0.040	mg/L	C	U		0.020	mg/L	C	U
Potassium	FILT	2.840	mg/L	D	U	FILT	5.000	mg/L	C	U		2.370	mg/L	C	U
Selenium	FILT	0.002	mg/L	D	U	FILT	0.005	mg/L	C	U		0.002	mg/L	C	U
Silver	FILT	0.001	mg/L	D	U	FILT	0.010	mg/L	C	U		0.001	mg/L	C	U
Sodium	FILT	10.910	mg/L	D	U	FILT	12.000	mg/L	C	U		11.500	mg/L	C	U
Thallium	FILT	0.001	mg/L	D	U	FILT	0.500	mg/L	C	U		NA	mg/L	C	U
Vanadium	FILT	0.013	mg/L	D	U	FILT	0.050	mg/L	C	U		NA	mg/L	C	U
Zinc	FILT	0.013	mg/L	D	U	FILT	0.050	mg/L	C	U		NA	mg/L	C	U
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	UNFI	5.000	ug/L	D	U		NA					NA	ug/L	C	U
1,1,2,2-Tetrachloroethane	UNKN	5.000	ug/L	D	U		NA					NA	ug/L	C	U
1,1,2-Trichloroethane	UNFI	5.000	ug/L	D	U		NA					NA	ug/L	C	U
1,1-Dichloroethane	UNFI	5.000	ug/L	D	U		NA					NA	ug/L	C	U
1,1-Dichloroethene	UNFI	5.000	ug/L	D	U		NA					NA	ug/L	C	U
1,2-Dichloroethane	U	5.000	ug/L	D	U		NA					NA	ug/L	C	U
1,2-Dichloroethene	UNFI	5.000	ug/L	D	U		NA					NA	ug/L	C	U
1,2-Dichloropropane	UNFI	5.000	ug/L	D	U		NA					NA	ug/L	C	U
2-Butanone	UNFI	10.000	ug/L	D	U		NA					NA	ug/L	C	U
2-Hexanone	UNFI	10.000	ug/L	D	U		NA					NA	ug/L	C	U
4-Methyl-2-pentanone	UNKN	10.000	ug/L	D	U		NA					NA	ug/L	C	U
Acetone	UNFI	7.000	ug/L	D	U		NA					NA	ug/L	C	U
Benzene	UNFI	5.000	ug/L	D	U		NA					NA	ug/L	C	U
Bromodichloromethane	UNFI	5.000	ug/L	D	U		NA					NA	ug/L	C	U

TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2042 003150	2042 003415	2042 003722			
SAMPLING DATE	05/04/88	08/09/88	11/17/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
Bromoform	UNFI	5.000 ug/L D U		NA		NA
Bromomethane	UNFI	10.000 ug/L D UJ		NA		NA
Carbon Tetrachloride	UNFI	5.000 ug/L D UJ		NA		NA
Carbon disulfide	UNFI	5.000 ug/L D UJ		NA		NA
Chlorobenzene	UNFI	5.000 ug/L D UJ		NA		NA
Chloroethane	UNFI	10.000 ug/L D U		NA		NA
Chloroform	UNKN	5.000 ug/L D UU		NA		NA
Chloromethane	UNFI	10.000 ug/L D UU		NA		NA
Dibromochloromethane	UNFI	5.000 ug/L D UU		NA		NA
Ethylbenzene	UNFI	5.000 ug/L D UU		NA		NA
Methylene chloride	UNFI	9.000 ug/L D UU		NA		NA
Styrene	UNFI	5.000 ug/L D UU		NA		NA
Tetrachloroethene	UNKN	5.000 ug/L D UU		NA		NA
Toluene	UNFI	5.000 ug/L D UU		NA		NA
Trichloroethene	UNFI	5.000 ug/L D UU		NA		NA
Vinyl Acetate	UNKN	10.000 ug/L D UU		NA		NA
Vinyl chloride	UNFI	10.000 ug/L D UU		NA		NA
Xylenes, Total	UNFI	5.000 ug/L D UU		NA		NA
cis-1,3-Dichloropropene	U	5.000 ug/L D UU		NA		NA
trans-1,3-Dichloropropene	UNFI	5.000 ug/L D U		NA		NA
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	UNFI	10.000 ug/L D U		NA		NA
1,2-Dichlorobenzene	UNFI	10.000 ug/L D UU		NA		NA
1,3-Dichlorobenzene	UNFI	10.000 ug/L D UU		NA		NA
1,4-Dichlorobenzene	UNFI	10.000 ug/L D UU		NA		NA
2,4,5-Trichlorophenol	UNKN	50.000 ug/L D UU		NA		NA
2,4,6-Trichlorophenol	UNFI	10.000 ug/L D UU		NA		NA
2,4-Dichlorophenol	UNFI	10.000 ug/L D UU		NA		NA
2,4-Dimethylphenol	UNFI	10.000 ug/L D UU		NA		NA
2,4-Dinitrophenol	UNFI	50.000 ug/L D UU		NA		NA
2,4-Dinitrotoluene	UNKN	10.000 ug/L D UU		NA		NA
2,6-Dinitrotoluene	UNFI	10.000 ug/L D UU		NA		NA
2-Chloronaphthalene	UNFI	10.000 ug/L D UU		NA		NA
2-Chlorophenol	UNKN	10.000 ug/L D UU		NA		NA
2-Methylnaphthalene	UNFI	10.000 ug/L D UU		NA		NA
2-Methylphenol	UNFI	10.000 ug/L D UU		NA		NA
2-Nitroaniline	UNFI	50.000 ug/L D UU		NA		NA
2-Nitrophenol	UNFI	10.000 ug/L D UU		NA		NA
3,3'-Dichlorobenzidine	UNFI	20.000 ug/L D UU		NA		NA
Nitroaniline	UNFI	50.000 ug/L D UU		NA		NA

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TABLE D-11A
(Continued)

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PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	2042	2042	2042
SAMPLE NUMBER	003150	003415	003722
SAMPLING DATE	05/04/88	08/09/88	11/17/88
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ
<u>Semivolatile Organics</u>			
4,6-Dinitro-2-methylphenol	UNKN	50.000	ug/L D UJ
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L D DD UU
4-Chloro-3-methylphenol	UNFI	10.000	ug/L D DD UU
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L D DD UU
4-Methylphenol	UNFI	10.000	ug/L D DD UU
4-Nitroaniline	UNFI	50.000	ug/L D DD UU
4-Nitrophenol	UNFI	50.000	ug/L D DD UU
Acenaphthene	UNFI	10.000	ug/L D DD UU
Acenaphthylene	UNFI	10.000	ug/L D DD UU
Anthracene	UNFI	10.000	ug/L D DD UU
Benzo(a)anthracene	UNFI	10.000	ug/L D DD UU
Benzo(a)pyrene	UNFI	10.000	ug/L D DD UU
Benzo(b)fluoranthene	UNFI	10.000	ug/L D DD UU
Benzo(g,h,i)perylene	UNKN	10.000	ug/L D DD UU
Benzo(k)fluoranthene	UNFI	10.000	ug/L D DD UU
Benzoic acid	UNFI	50.000	ug/L D DD UU
Benzyl alcohol	UNFI	10.000	ug/L D DD UU
Butyl benzyl phthalate	UNFI	10.000	ug/L D DD UU
Chrysene	UNFI	10.000	ug/L D DD UU
Di-n-butyl phthalate	UNFI	10.000	ug/L D DD UU
Di-n-octyl phthalate	UNFI	10.000	ug/L D DD UU
Dibenz(a,h)anthracene	UNFI	10.000	ug/L D DD UU
Dibenzofuran	UNFI	10.000	ug/L D DD UU
Diethyl phthalate	UNFI	10.000	ug/L D DD UU
Dimethyl phthalate	UNFI	10.000	ug/L D DD UU
Fluoranthene	UNFI	10.000	ug/L D DD UU
Fluorene	UNFI	10.000	ug/L D DD UU
Hexachlorobenzene	UNFI	10.000	ug/L D DD UU
Hexachlorobutadiene	UNFI	10.000	ug/L D DD UU
Hexachlorocyclopentadiene	UNFI	10.000	ug/L D DD UU
Hexachloroethane	UNFI	10.000	ug/L D DD UU
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L D DD UU
Isophorone	UNFI	10.000	ug/L D DD UU
Methyl parathion	UNFI	1000.000	ug/L C
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L D DD UU
N-Nitrosodiphenylamine	UNFI	10.000	ug/L D DD UU
Naphthalene	UNFI	10.000	ug/L D DD UU
Nitrobenzene	UNFI	10.000	ug/L D DD UU
Parathion	UNFI	500.000	ug/L C
Pentachlorophenol	UNFI	50.000	ug/L D DD UU
Phenanthrene	UNFI	10.000	ug/L D DD UU
Phenol	NA		
		UNFI	50.000 ug/L C

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2042 003150	2042 003415	2042 003722			
SAMPLING DATE	05/04/88	08/09/88	11/17/88			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
Phenol	UNKN	10.000 ug/L D U		NA		NA
Pyrene	UNFI	10.000 ug/L DDDU		NA		NA
bis(2-Chloroethoxy)methane	UNFI	10.000 ug/L DDDU		NA		NA
bis(2-Chloroethyl)ether	UNFI	10.000 ug/L DDDU		NA		NA
bis(2-Chloroisopropyl) ether	UNFI	10.000 ug/L DDDU		NA		NA
bis(2-Ethylhexyl) phthalate	UNFI	10.000 ug/L DDDU		NA		NA
p-Chloroaniline	UNFI	10.000 ug/L D U		NA		NA
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD		0.100 ug/L C U		NA		NA
4,4'-DDE		0.100 ug/L CCCU		NA		NA
4,4'-DDT		0.100 ug/L CCCCU		NA		NA
Aldrin		0.050 ug/L CCCCU		NA		NA
Aroclor-1016		0.500 ug/L CCCCU		NA		NA
Aroclor-1221		0.500 ug/L CCCCU		NA		NA
Aroclor-1232		0.500 ug/L CCCCU		NA		NA
Aroclor-1242		0.500 ug/L CCCCU		NA		NA
Aroclor-1248		0.500 ug/L CCCCU		NA		NA
Aroclor-1254		1.000 ug/L CCCCU		NA		NA
Aroclor-1260		1.000 ug/L CCCCU		NA		NA
Azinphosmethyl	UNFI	2000.000 ug/L CCCCU		NA		NA
Demeton	UNFI	1000.000 ug/L CCCCU		NA		NA
Diazinon	UNFI	500.000 ug/L CCCCU		NA		NA
Dieleadrin	U	0.100 ug/L CCCCU		NA		NA
Disulfoton	UNKN	500.000 ug/L CCCCU		NA		NA
Endosulfan II		0.100 ug/L CCCCU		NA		NA
Endosulfan sulfate		0.100 ug/L CCCCU		NA		NA
Endosulfan-I		0.050 ug/L CCCCU		NA		NA
Endrin		0.100 ug/L CCCCU		NA		NA
Endrin ketone		0.100 ug/L CCCCU		NA		NA
Ethion	UNFI	500.000 ug/L CCCCU		NA		NA
Heptachlor		0.050 ug/L CCCCU		NA		NA
Heptachlor epoxide		0.050 ug/L CCCCU		NA		NA
Malathion	UNFI	1000.000 ug/L CCCCU		NA		NA
Methoxychlor		0.500 ug/L CCCCU		NA		NA
Toxaphene		1.000 ug/L CCCCU		NA		NA
alpha-BHC		0.050 ug/L CCCCU		NA		NA
alpha-Chlordane		0.500 ug/L CCCCU		NA		NA
beta-BHC		0.050 ug/L CCCCU		NA		NA
delta-BHC		0.050 ug/L CCCU		NA		NA
gamma-BHC (Lindane)		0.050 ug/L C		NA		NA

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2042 003150				2042 003415				2042 003722			
SAMPLING DATE	05/04/88				08/09/88				11/17/88			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Pesticide Organics/PCBs</u>												
gamma-Chlordane	U	0.500	ug/L	C U		NA				NA		
<u>General Chemistry</u>												
Ammonia	UNFI	0.500	mg/L	C U	UNFI	0.300	mg/L	C U	UNFI	0.100	mg/L	C U
Chloride	UNFI	36.700	mg/L	C C	UNFI	18.000	mg/L	C -	UNFI	19.500	mg/L	C C
Fluoride	UNFI	0.390	mg/L	C C	UNFI	1.200	mg/L	C -	UNFI	0.140	mg/L	C C
Nitrate	UNFI	0.200	mg/L	C C	UNFI	0.900	mg/L	C C	UNFI	0.436	mg/L	C C
Phenols	UNFI	0.010	mg/L	C U	UNFI	0.050	mg/L	C U	UNFI	0.010	mg/L	C C
Phosphorus	UNFI	0.056	mg/L	C C		NA			UNFI	0.020	mg/L	C C
Sulfate	UNFI	0.042	mg/L	C -	UNFI	86.000	mg/L	C U	UNFI	103.000	mg/L	C C
Total Kjeldahl Nitrogen	NA				UNFI	15.000	mg/L	C U	UNFI	0.260	mg/L	C C
Total Organic Halides	NA				NA				UNFI	0.050	mg/L	C C
Total Organic Nitrogen	UNFI	0.500	mg/L	C U	UNFI	0.300	mg/L	C U	UNFI	0.260	mg/L	-

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER, SAMPLE NUMBER	2042 003921	2042 004036 DUPLICATE 03/01/89	4101 003031			
SAMPLING DATE	03/01/89		12/04/87			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Arsenic	FILT	0.003 mg/L C U	FILT	0.003 mg/L C U	UNKN	NA
Arsenic		NA		NA		0.002 mg/L C NV
Barium	FILT	0.040 mg/L C -	FILT	0.051 mg/L C -	UNKN	NA
Barium		NA		NA		0.200 mg/L C NV
Cadmium	FILT	0.005 mg/L C U	FILT	0.005 mg/L C U	UNKN	NA
Cadmium		NA		NA		0.001 mg/L C NV
Calcium	FILT	120.000 mg/L C -	FILT	160.000 mg/L C -	UNKN	NA
Calcium		NA		NA		126.000 mg/L C NV
Chromium	FILT	0.020 mg/L C -	FILT	0.020 mg/L C -	UNKN	NA
Chromium		NA		NA		0.005 mg/L C NV
Copper	FILT	0.010 mg/L C U	FILT	0.010 mg/L C U	UNKN	NA
Copper		NA		NA		0.025 mg/L C NV
Cyanide		NA		NA		0.005 mg/L C NV
Iron	FILT	0.180 mg/L C -	FILT	0.400 mg/L C -	UNKN	NA
Iron		NA		NA		5.700 mg/L C NV
Lead	FILT	0.002 mg/L C U	FILT	0.002 mg/L C U	UNKN	NA
Lead		NA		NA		0.005 mg/L C NV
Magnesium	FILT	26.000 mg/L C -	FILT	31.000 mg/L C -	UNKN	NA
Magnesium		NA		NA		34.900 mg/L C NV
Manganese	FILT	0.230 mg/L C -	FILT	0.550 mg/L C -	UNKN	NA
Manganese		NA		NA		0.423 mg/L C NV
Mercury	FILT	0.000 mg/L C UJ	FILT	0.000 mg/L C UJ	UNKN	NA
Mercury		NA		NA		0.000 mg/L C NV
Molybdenum	FILT	0.010 mg/L C -	FILT	0.010 mg/L C -	UNKN	NA
Nickel	FILT	0.030 mg/L C U	FILT	0.030 mg/L C U	UNKN	NA
Nickel		NA		NA		0.005 mg/L C NV
Potassium	FILT	2.900 mg/L C -	FILT	3.700 mg/L C -	UNKN	NA
Potassium		NA		NA		4.690 mg/L C NV
Selenium	FILT	0.005 mg/L C U	FILT	0.005 mg/L C U	UNKN	NA
Selenium		NA		NA		0.002 mg/L C NV
Silver	FILT	0.010 mg/L C U	FILT	0.010 mg/L C U	UNKN	NA
Silver		NA		NA		0.030 mg/L C NV
Sodium	FILT	12.000 mg/L C -	FILT	12.000 mg/L C -	UNKN	NA
Sodium		NA		NA		37.200 mg/L C NV
Zinc		NA		NA	UNKN	0.020 mg/L C NV
<u>Semivolatile Organics</u>						
2-Chloro-N-(2,6-diethylphenyl)-N-(methoxy	NA		NA		UNFI	2000.000 ug/L C NV
6-Chloro-N,N'-diethyl-1,3,5-triazine-2,4-	NA		NA		UNFI	1000.000 ug/L C NV
<u>Herbicide Organics</u>						
2,4,5-TP (Silvex)	NA		NA		UNFI	500.000 ug/L C NV

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2042 003921	2042 004036 DUPLICATE	4101 003031			
SAMPLING DATE	03/01/89	03/01/89	12/04/87			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Herbicide Organics</u>						
2,4-D		NA		NA	UNFI	1000.000 ug/L C NV
Atrazine		NA		NA	UNFI	1000.000 ug/L C NV
Cyanazine		NA		NA	UNFI	1000.000 ug/L C NV
Linuron		NA		NA	UNFI	1000.000 ug/L C NV
Metribuzin		NA		NA	UNFI	1000.000 ug/L C NV
<u>Pesticide Organics/PCBs</u>						
Endrin		NA		NA	UNFI	200.000 ug/L C NV
Fonofos		NA		NA	UNFI	1000.000 ug/L C NV
Methoxychlor		NA		NA	UNFI	200.000 ug/L C NV
Metolachlor		NA		NA	UNFI	1000.000 ug/L C NV
Phosphorodithioic acid, O,O-diethyl-S-((NA		NA	UNFI	1000.000 ug/L C NV
Toxaphene		NA		NA	UNFI	1000.000 ug/L C NV
gamma-BHC (Lindane)		NA		NA	UNFI	500.000 ug/L C NV
<u>Dioxin/Furan</u>						
Carbofuran		NA		NA	UNFI	1000.000 ug/L C NV
<u>General Chemistry</u>						
Ammonia	UNFI	0.300 mg/L C -	UNFI	0.200 mg/L C -	NA	
Chemical Oxygen Demand		NA		NA	UNFI	10.000 mg/L C NV
Chloride	UNFI	22.000 mg/L C U	UNFI	21.000 mg/L C U	UNFI	40.000 mg/L C NV
Fluoride	UNFI	0.200 mg/L C -	UNFI	0.200 mg/L C -	UNFI	0.150 mg/L C NV
Hexavalent Chromium		NA		NA	UNFI	0.005 mg/L C NV
Nitrate	UNFI	0.670 mg/L C J	UNFI	0.390 mg/L C J	UNFI	0.020 mg/L C NV
Phenols	UNFI	0.005 mg/L C U	UNFI	0.055 mg/L C -	UNFI	0.005 mg/L C NV
Phosphorus	UNFI	0.550 mg/L C C	UNFI	0.670 mg/L C -	UNFI	0.120 mg/L C NV
Sulfate	UNFI	100.000 mg/L C -	UNFI	140.000 mg/L C -	NA	
Sulfate		NA		NA	UNKN	140.000 mg/L C NV
Total Dissolved Solids		NA		NA	FILT	604.000 mg/L C NV
Total Kjeldahl Nitrogen	UNFI	0.600 mg/L C -	UNFI	0.500 mg/L C U	NA	
Total Organic Carbon		NA		NA	UNFI	1.000 mg/L C NV
Total Organic Halides		NA		NA	UNFI	0.016 mg/L C NV
Total Organic Nitrogen	UNFI	0.300 mg/L C -	UNFI	0.300 mg/L C U	NA	

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	4101 003207				4101 003409				4101 003410 DUPLICATE 08/08/88						
SAMPLE NUMBER															
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Arsenic	FILT	NA				*F	0.010	mg/L	D	R	*F	0.010	mg/L	D	R
Arsenic		0.200	mg/L	C	U		NA					NA			
Barium	FILT	NA				*F	0.200	mg/L	D	R	*F	0.200	mg/L	D	R
Barium		0.165	mg/L	C	-		NA					NA			
Cadmium	FILT	NA				*F	0.005	mg/L	D	R	*F	0.005	mg/L	D	R
Cadmium		0.005	mg/L	C	U		NA					NA			
Calcium	FILT	NA				*F	130.000	mg/L	D	R	*F	130.000	mg/L	D	R
Calcium		128.900	mg/L	C	-		NA					NA			
Chromium	FILT	NA				*F	0.010	mg/L	D	R	*F	0.010	mg/L	D	R
Chromium		0.020	mg/L	C	U		NA					NA			
Copper	FILT	NA				*F	0.030	mg/L	D	R	*F	0.030	mg/L	D	R
Copper		0.010	mg/L	C	U		NA					NA			
Iron	FILT	NA				*F	5.800	mg/L	D	R	*F	5.800	mg/L	D	R
Iron		5.840	mg/L	C	-		NA					NA			
Lead	FILT	NA				*F	0.005	mg/L	D	R	*F	0.005	mg/L	D	R
Lead		0.050	mg/L	C	U		NA					NA			
Magnesium	FILT	NA				*F	28.000	mg/L	D	R	*F	29.000	mg/L	D	R
Magnesium		35.500	mg/L	C	-		NA					NA			
Manganese	FILT	NA				*F	0.450	mg/L	D	R	*F	0.450	mg/L	D	R
Manganese		0.471	mg/L	C	-		NA					NA			
Mercury	FILT	NA				*F	0.000	mg/L	C	R	*F	0.000	mg/L	C	R
Mercury		0.000	mg/L	C	U		NA					NA			
Molybdenum	FILT	NA				*F	0.050	mg/L	D	R	*F	0.050	mg/L	D	R
Molybdenum		0.020	mg/L	C	U		NA					NA			
Nickel	FILT	NA				*F	0.040	mg/L	D	R	*F	0.040	mg/L	D	R
Nickel		0.020	mg/L	C	U		NA					NA			
Potassium	FILT	NA				*F	5.000	mg/L	D	R	*F	5.000	mg/L	D	R
Potassium		4.870	mg/L	C	-		NA					NA			
Selenium	FILT	NA				*F	0.005	mg/L	D	R	*F	0.005	mg/L	D	R
Selenium		0.200	mg/L	C	U		NA					NA			
Silver	FILT	NA				*F	0.010	mg/L	D	R	*F	0.010	mg/L	D	R
Silver		0.010	mg/L	C	U		NA					NA			
Sodium	FILT	NA				*F	38.000	mg/L	D	R	*F	38.000	mg/L	D	R
Sodium		39.300	mg/L	C	-		NA					NA			
<u>General Chemistry</u>															
Ammonia	UNFI	3.600	mg/L	C	J	UNFI	4.800	mg/L	D	R	UNFI	3.100	mg/L	D	R
Chloride	UNFI	38.400	mg/L	C	J	UNFI	40.000	mg/L	C	NV	UNFI	35.000	mg/L	C	NV
Fluoride	UNFI	0.400	mg/L	C	-	UNFI	0.200	mg/L	C	NV	UNFI	0.140	mg/L	C	NV
Nitrate	UNFI	0.100	mg/L	C	U	UNFI	2.500	mg/L	C	NV	UNFI	2.500	mg/L	C	NV
Phenols	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	NV	UNFI	0.010	mg/L	C	NV

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4101 003207	RESULTS	UNITS	L	VQ	FLTD	4101 003409	RESULTS	UNITS	L	VQ	FLTD	4101 003410 DUPLICATE 08/08/88	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>																	
Phosphate	UNKN	NA				UNFI	0.170	mg/L	C	NV		UNFI	0.220	mg/L	D	NV	
Phosphorus	UNFI	0.195	mg/L	C	-	UNFI	NA					UNFI	NA				
Sulfate	UNFI	182.000	mg/L	C	-	UNFI	130.000	mg/L	C	NV		UNFI	110.000	mg/L	D	NV	
Total Organic Nitrogen	UNFI	0.400	mg/L	C	J	UNFI	0.100	mg/L	D	R		UNFI	1.500	mg/L	D	R	

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4101 003719	4101 003918	4101 066737			
SAMPLING DATE	11/18/88	03/15/89	12/07/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Aluminum		NA	FILT	0.130 mg/L D U	FILT	0.050 mg/L C NV
Aluminum		NA	FILT	0.001 mg/L D U	UNKN	0.169 mg/L C NV
Antimony		NA	FILT	0.002 mg/L D UJ	FILT	0.002 mg/L C NV
Arsenic	FILT	0.002 mg/L C UJ	FILT	0.002 mg/L D UJ	UNKN	0.002 mg/L C NV
Arsenic		NA	FILT	NA	FILT	0.400 mg/L C NV
Barium	FILT	0.151 mg/L C -	FILT	0.136 mg/L D -	UNKN	0.328 mg/L C NV
Barium		NA	FILT	NA	FILT	0.010 mg/L C NV
Beryllium		NA	FILT	0.001 mg/L D U	UNKN	NA
Beryllium		NA	FILT	NA	NA	mg/L C NV
Cadmium	FILT	0.002 mg/L C U	FILT	0.005 mg/L D U	FILT	115.000 mg/L C NV
Calcium	FILT	116.000 mg/L C -	FILT	113.000 mg/L D -	UNKN	110.000 mg/L C NV
Calcium		NA	FILT	NA	FILT	0.005 mg/L C NV
Chromium	FILT	0.020 mg/L C U	FILT	0.023 mg/L D U	UNKN	0.005 mg/L C NV
Chromium		NA	FILT	NA	FILT	0.025 mg/L C NV
Cobalt		NA	FILT	0.004 mg/L D U	UNKN	0.025 mg/L C NV
Cobalt		NA	FILT	NA	FILT	0.025 mg/L C NV
Copper	FILT	0.010 mg/L C U	FILT	0.013 mg/L D U	UNKN	0.025 mg/L C NV
Copper		NA	FILT	NA	NA	mg/L C NV
Cyanide		NA	UNKN	0.010 mg/L D UJ	NA	NA
Iron	FILT	4.940 mg/L C -	FILT	4.230 mg/L D -	FILT	4.740 mg/L C NV
Iron		NA	FILT	NA	UNKN	4.860 mg/L C NV
Lead	FILT	0.003 mg/L C R	FILT	0.002 mg/L D UJ	FILT	0.005 mg/L C NV
Lead		NA	FILT	NA	UNKN	0.005 mg/L C NV
Magnesium	FILT	30.500 mg/L C -	FILT	29.600 mg/L D -	FILT	32.700 mg/L C NV
Magnesium		NA	FILT	NA	UNKN	31.000 mg/L C NV
Manganese	FILT	0.411 mg/L C -	FILT	0.348 mg/L D -	FILT	0.417 mg/L C NV
Manganese		NA	FILT	NA	UNKN	0.422 mg/L C NV
Mercury	FILT	0.000 mg/L C U	FILT	0.000 mg/L D U	NA	NA
Molybdenum	FILT	0.020 mg/L C U	FILT	0.004 mg/L D -	NA	NA
Nickel	FILT	0.020 mg/L C U	FILT	0.016 mg/L D -	FILT	0.005 mg/L C NV
Nickel		NA	FILT	NA	UNKN	0.005 mg/L C NV
Potassium	FILT	4.120 mg/L C -	FILT	3.440 mg/L D -	NA	NA
Selenium	FILT	0.002 mg/L C UJ	FILT	0.002 mg/L D R	NA	NA
Silver	FILT	0.001 mg/L C U	FILT	0.001 mg/L D U	FILT	0.001 mg/L C NV
Silver		NA	FILT	NA	UNKN	0.001 mg/L C NV
Sodium	FILT	32.700 mg/L C -	FILT	30.200 mg/L D -	FILT	31.100 mg/L C NV
Sodium		NA	FILT	NA	UNKN	38.300 mg/L C NV
Thallium		NA	FILT	0.002 mg/L D R	NA	NA
Vanadium		NA	FILT	0.014 mg/L D U	FILT	0.050 mg/L C NV
Vanadium		NA	FILT	NA	UNKN	0.050 mg/L C NV
Zinc		NA	FILT	0.009 mg/L D U	FILT	0.020 mg/L C NV
Zinc		NA	FILT	NA	UNKN	0.020 mg/L C NV

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	4101 003719	4101 003918	4101 066737			
SAMPLING DATE	11/18/88	03/15/89	12/07/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	NA	UNFI	5.000	ug/L D U	NA	
1,1,2,2-Tetrachloroethane	NA	UNFI	5.000	ug/L D	NA	
1,1,2-Trichloroethane	NA	UNFI	5.000	ug/L D	NA	
1,1-Dichloroethane	NA	UNFI	5.000	ug/L D	UNFI	2.500 ug/L C NV
1,1-Dichloroethene	NA	UNFI	5.000	ug/L D	UNFI	NA
1,2-Dichloroethane	NA	UNFI	5.000	ug/L D	UNFI	2.500 ug/L C NV
1,2-Dichloroethene	NA	UNFI	5.000	ug/L D	NA	
1,2-Dichloropropane	NA	UNFI	5.000	ug/L D	NA	
2-Butanone	NA	UNFI	10.000	ug/L D	NA	
2-Hexanone	NA	UNFI	10.000	ug/L D	NA	
4-Methyl-2-pentanone	NA	UNFI	10.000	ug/L D	NA	
Acetone	NA	UNFI	10.000	ug/L D	UNFI	2.500 ug/L C NV
Benzene	NA	UNFI	5.000	ug/L D	NA	
Bromodichloromethane	NA	UNFI	5.000	ug/L D	NA	
Bromoform	NA	UNFI	5.000	ug/L D	NA	
Bromomethane	NA	UNFI	10.000	ug/L D	NA	
Carbon Tetrachloride	NA	UNFI	5.000	ug/L D	NA	
Carbon disulfide	NA	UNFI	5.000	ug/L D	NA	
Chlorobenzene	NA	UNFI	5.000	ug/L D	NA	
Chloroethane	NA	UNFI	5.000	ug/L D	NA	
Chloroform	NA	UNFI	10.000	ug/L D	NA	
Chloromethane	NA	UNFI	5.000	ug/L D	NA	
Dibromochloromethane	NA	UNFI	5.000	ug/L D	NA	
Ethylbenzene	NA	UNFI	5.000	ug/L D	NA	
Methylene chloride	NA	UNFI	5.000	ug/L D	UNFI	2.500 ug/L C NV
Styrene	NA	UNFI	5.000	ug/L D	NA	
Tetrachloroethene	NA	UNFI	5.000	ug/L D	UNFI	2.500 ug/L C NV
Toluene	NA	UNFI	5.000	ug/L D	UNFI	2.500 ug/L C NV
Trichloroethane	NA	UNFI	5.000	ug/L D	UNFI	2.500 ug/L C NV
Vinyl Acetate	NA	UNFI	10.000	ug/L D	NA	
Vinyl chloride	NA	UNFI	10.000	ug/L D	NA	
Xylenes, Total	NA	UNFI	5.000	ug/L D	NA	
cis-1,3-Dichloropropene	NA	UNFI	5.000	ug/L D	NA	
trans-1,3-Dichloropropene	NA	UNFI	5.000	ug/L D	NA	
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene	NA	UNFI	10.000	ug/L D	NA	
1,2-Dichlorobenzene	NA	UNFI	10.000	ug/L D	NA	
1,3-Dichlorobenzene	NA	UNFI	10.000	ug/L D	NA	
1,4-Dichlorobenzene	NA	UNFI	10.000	ug/L D	NA	
2,4,5-Trichlorophenol	NA	UNFI	50.000	ug/L D	NA	

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	4101	4101	4101			
SAMPLE NUMBER	003719	003918	066737			
SAMPLING DATE	11/18/88	03/15/89	12/07/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
2,4,6-Trichlorophenol	NA	UNFI	10.000 ug/L D U	NA		
2,4-Dichlorophenol	NA	UNFI	10.000 ug/L D D	NA		
2,4-Dimethylphenol	NA	UNFI	10.000 ug/L D D	NA		
2,4-Dinitrophenol	NA	UNFI	50.000 ug/L D D	NA		
2,4-Dinitrotoluene	NA	UNFI	10.000 ug/L D D	NA		
2,6-Dinitrotoluene	NA	UNFI	10.000 ug/L D D	NA		
2-Chloronaphthalene	NA	UNFI	10.000 ug/L D D	NA		
2-Chlorophenol	NA	UNFI	10.000 ug/L D D	NA		
2-Methylnaphthalene	NA	UNFI	10.000 ug/L D D	NA		
2-Methylphenol	NA	UNFI	10.000 ug/L D D	NA		
2-Nitroaniline	NA	UNFI	50.000 ug/L D D	NA		
2-Nitrophenol	NA	UNFI	10.000 ug/L D D	NA		
3,3'-Dichlorobenzidine	NA	UNFI	20.000 ug/L D D	NA		
3-Nitroaniline	NA	UNFI	50.000 ug/L D D	NA		
4,6-Dinitro-2-methylphenol	NA	UNFI	50.000 ug/L D D	NA		
4-Bromophenyl phenyl ether	NA	UNFI	10.000 ug/L D D	NA		
4-Chloro-3-methylphenol	NA	UNFI	10.000 ug/L D D	NA		
4-Chlorophenylphenyl ether	NA	UNFI	10.000 ug/L D D	NA		
4-Methylphenol	NA	UNFI	10.000 ug/L D D	NA		
4-Nitroaniline	NA	UNFI	50.000 ug/L D D	NA		
4-Nitrophenol	NA	UNFI	50.000 ug/L D D	NA		
Acenaphthene	NA	UNFI	10.000 ug/L D D	NA		
Acenaphthylene	NA	UNFI	10.000 ug/L D D	NA		
Anthracene	NA	UNFI	10.000 ug/L D D	NA		
Benzo(a)anthracene	NA	UNFI	10.000 ug/L D D	NA		
Benzo(a)pyrene	NA	UNFI	10.000 ug/L D D	NA		
Benzo(b)fluoranthene	NA	UNFI	10.000 ug/L D D	NA		
Benzo(g,h,i)perylene	NA	UNFI	10.000 ug/L D D	NA		
Benzo(k)fluoranthene	NA	UNFI	10.000 ug/L D D	NA		
Benzoic acid	NA	UNFI	10.000 ug/L D D	NA		
Benzyl alcohol	NA	UNFI	50.000 ug/L D D	NA		
Butyl benzyl phthalate	NA	UNFI	10.000 ug/L D D	NA		
Chrysene	NA	UNFI	10.000 ug/L D D	NA		
Di-n-butyl phthalate	NA	UNFI	10.000 ug/L D D	NA		
Di-n-octyl phthalate	NA	UNFI	10.000 ug/L D D	NA		
Dibenzo(a,h)anthracene	NA	UNFI	10.000 ug/L D D	NA		
Dibenzofuran	NA	UNFI	10.000 ug/L D D	NA		
Diethyl phthalate	NA	UNFI	10.000 ug/L D D	NA		
Dimethyl phthalate	NA	UNFI	10.000 ug/L D D	NA		
Fluoranthene	NA	UNFI	10.000 ug/L D D	NA		
Fluorene	NA	UNFI	10.000 ug/L D D	NA		
Hexachlorobenzene	NA	UNFI	10.000 ug/L D D	NA		

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TABLE D-11A
(Continued)

PHASE I-CHEMICAL PARAMETERS

BORING NUMBER	4101	4101	4101				
SAMPLE NUMBER	003719	003918	066737				
SAMPLING DATE	11/18/88	03/15/89	12/07/89				
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	
<u>Semivolatile Organics</u>							
Hexachlorobutadiene	NA		UNFI	10.000 ug/L D U			NA
Hexachlorocyclopentadiene	NA		UNFI	10.000 ug/L D U			NA
Hexachloroethane	NA		UNFI	10.000 ug/L D U			NA
Indeno(1,2,3-cd)pyrene	NA		UNFI	10.000 ug/L D U			NA
Isophorone	NA		UNFI	10.000 ug/L D U			NA
N-Nitroso-di-n-propylamine	NA		UNFI	10.000 ug/L D U			NA
N-Nitrosodiphenylamine	NA		UNFI	10.000 ug/L D U			NA
Naphthalene	NA		UNFI	10.000 ug/L D U			NA
Nitrobenzene	NA		UNFI	10.000 ug/L D U			NA
Pentachlorophenol	NA		UNFI	50.000 ug/L D U			NA
Phenanthrene	NA		UNFI	10.000 ug/L D U			NA
Phenol	NA		UNFI	10.000 ug/L D U			NA
Pyrene	NA		UNFI	10.000 ug/L D U			NA
bis(2-Chloroethoxy)methane	NA		UNFI	10.000 ug/L D U			NA
bis(2-Chloroethyl)ether	NA		UNFI	10.000 ug/L D U			NA
bis(2-Chloroisopropyl) ether	NA		UNFI	10.000 ug/L D U			NA
bis(2-Ethylhexyl) phthalate	NA		UNFI	10.000 ug/L D U			NA
p-Chloroaniline	NA		UNFI	10.000 ug/L D U			NA
<u>Pesticide Organics/PCBs</u>							
4,4'-DDD	NA		UNFI	0.100 ug/L D U			NA
4,4'-DDE	NA		UNFI	0.100 ug/L D U			NA
4,4'-DDT	NA		UNFI	0.100 ug/L D U			NA
Aldrin	NA		UNFI	0.050 ug/L D U			NA
Aroclor-1016	NA		UNFI	0.500 ug/L D U			NA
Aroclor-1221	NA		UNFI	0.500 ug/L D U			NA
Aroclor-1232	NA		UNFI	0.500 ug/L D U			NA
Aroclor-1242	NA		UNFI	0.500 ug/L D U			NA
Aroclor-1248	NA		UNFI	0.500 ug/L D U			NA
Aroclor-1254	NA		UNFI	1.000 ug/L D U			NA
Aroclor-1260	NA		UNFI	1.000 ug/L D U			NA
Dieldrin	NA		UNFI	0.100 ug/L D U			NA
Endosulfan II	NA		UNFI	0.100 ug/L D U			NA
Endosulfan sulfate	NA		UNFI	0.100 ug/L D U			NA
Endosulfan-I	NA		UNFI	0.050 ug/L D U			NA
Endrin	NA		UNFI	0.100 ug/L D U			NA
Endrin ketone	NA		UNFI	0.100 ug/L D U			NA
Heptachlor	NA		UNFI	0.050 ug/L D U			NA
Heptachlor epoxide	NA		UNFI	0.050 ug/L D U			NA
Methoxychlor	NA		UNFI	0.500 ug/L D U			NA
Toxaphene	NA		UNFI	1.000 ug/L D U			NA

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4101 003719	4101 003918	4101 066737			
SAMPLING DATE	11/18/88	03/15/89	12/07/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
alpha-BHC	NA		UNFI	0.050 ug/L D U		NA
alpha-Chlordane	NA		UNFI	0.500 ug/L D D		NA
beta-BHC	NA		UNFI	0.050 ug/L D D		NA
delta-BHC	NA		UNFI	0.050 ug/L D D		NA
gamma-BHC (Lindane)	NA		UNFI	0.050 ug/L D D		NA
gamma-Chlordane	NA		UNFI	0.500 ug/L D U		NA
<u>General Chemistry</u>						
Ammonia	UNFI	6.630 mg/L C -	UNFI	5.130 mg/L C J		NA
Chloride	UNFI	36.900 mg/L C -	UNFI	38.000 mg/L C -	UNFI	36.000 mg/L C NV
Fluoride	UNFI	0.245 mg/L C -	UNFI	0.210 mg/L C -	UNFI	0.240 mg/L C NV
Nitrate	UNFI	0.100 mg/L C R	UNFI	0.380 mg/L C -	UNFI	0.410 mg/L C NV
Phenols	UNFI	0.015 mg/L C -	UNFI	0.010 mg/L C -	UNFI	0.025 mg/L C NV
Phosphorus	UNFI	0.031 mg/L C -	UNFI	0.146 mg/L C -		NA
Sulfate	UNFI	97.200 mg/L C J	UNFI	161.830 mg/L C JJ	UNFI	105.000 mg/L C NV
Total Kjeldahl Nitrogen	UNFI	6.790 mg/L C -	UNFI	3.480 mg/L C J		NA
Total Organic Carbon	NA		NA		UNFI	1.000 mg/L C NV
Total Organic Halides	UNFI	0.050 mg/L C U	UNFI	0.014 mg/L C -	UNFI	0.010 mg/L C NV
Total Organic Nitrogen	UNFI	0.160 mg/L C -	UNFI	0.100 mg/L C UJ		NA

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TABLE D-11A
(Continued)

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PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	4101			4102			4102					
SAMPLE NUMBER	003208			003205			003412					
SAMPLING DATE	DUPLICATE 05/19/88			05/19/88			08/08/88					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
<u>Inorganics</u>												
Arsenic	FILT	0.200	mg/L	C	U	FILT	0.220	mg/L	C	U		
Arsenic		NA					NA		0.010	mg/L	D	R
Barium	FILT	0.159	mg/L	C	-	FILT	0.067	mg/L	C	-		
Barium		NA					NA		0.200	mg/L	D	R
Cadmium	FILT	0.005	mg/L	C	U	FILT	0.005	mg/L	C	U		
Cadmium		NA					NA		0.005	mg/L	D	R
Calcium	FILT	122.900	mg/L	C	-	FILT	95.900	mg/L	C	-		
Calcium		NA					NA		100.000	mg/L	D	R
Chromium	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C	U		
Chromium		NA					NA		0.010	mg/L	D	R
Copper	FILT	0.010	mg/L	C	U	FILT	0.010	mg/L	C	U		
Copper		NA					NA		0.030	mg/L	D	R
Iron	FILT	5.630	mg/L	C	-	FILT	3.190	mg/L	C	-		
Iron		NA					NA		3.300	mg/L	D	R
Lead	FILT	0.050	mg/L	C	U	FILT	0.050	mg/L	C	U		
Lead		NA					NA		0.005	mg/L	D	R
Magnesium	FILT	33.700	mg/L	C	-	FILT	27.200	mg/L	C	-		
Magnesium		NA					NA		25.000	mg/L	D	R
Manganese	FILT	0.434	mg/L	C	-	FILT	0.387	mg/L	C	-		
Manganese		NA					NA		42.000	mg/L	D	R
Mercury	FILT	0.000	mg/L	C	U	FILT	0.000	mg/L	C	U		
Mercury		NA					NA		0.000	mg/L	C	R
Molybdenum	FILT	0.028	mg/L	C	-	FILT	0.020	mg/L	C	U		
Molybdenum		NA					NA		0.050	mg/L	D	R
Nickel	FILT	0.020	mg/L	C	U	FILT	0.020	mg/L	C	U		
Nickel		NA					NA		0.040	mg/L	D	R
Potassium	FILT	3.880	mg/L	C	-	FILT	1.580	mg/L	C	-		
Potassium		NA					NA		5.000	mg/L	D	R
Selenium	FILT	0.200	mg/L	C	U	FILT	0.200	mg/L	C	U		
Selenium		NA					NA		0.005	mg/L	D	R
Silver	FILT	0.010	mg/L	C	U	FILT	0.020	mg/L	C	UJ		
Silver		NA					NA		0.010	mg/L	D	R
Sodium	FILT	37.100	mg/L	C	-	FILT	16.800	mg/L	C	-		
Sodium		NA					NA		20.000	mg/L	D	R
<u>General Chemistry</u>												
Ammonia	UNFI	0.200	mg/L	C	J	UNFI	0.500	mg/L	C	J		
Chloride	UNFI	42.500	mg/L	C	J	UNFI	32.100	mg/L	C	J		
Fluoride	UNFI	0.380	mg/L	C	-	UNFI	0.350	mg/L	C	-		
Nitrate	UNFI	0.100	mg/L	C	-	UNFI	0.100	mg/L	C	-		
Phenols	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	C	U		

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4101 003208	DUPLICATE	4102 003205	4102 003412		
SAMPLING DATE	05/19/88		05/19/88	08/08/88		
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>General Chemistry</u>						
Phosphate	UNFI	NA	UNFI	NA	UNFI	0.160 mg/L C NV
Phosphorus	UNFI	0.180 mg/L C -	UNFI	0.180 mg/L C -	UNFI	NA
Sulfate	UNFI	137.000 mg/L C J	UNFI	11.000 mg/L C -	UNFI	108.000 mg/L C NV
Total Organic Nitrogen	UNFI	3.500 mg/L C J	UNFI	0.100 mg/L C UJ	UNFI	0.100 mg/L D R

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4102 003720			4102 003919			4102 066739		
SAMPLING DATE	11/18/88			02/23/89			12/07/89		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Inorganics</u>									
Aluminum		NA			NA		FILT	0.050	mg/L C NV
Aluminum		NA			NA		UNKN	0.062	mg/L C NV
Arsenic	FILT	0.002	mg/L C UJ	FILT	0.003	mg/L C J	FILT	0.002	mg/L C NV
Arsenic		NA			NA		UNKN	0.002	mg/L C NV
Barium	FILT	0.069	mg/L C -	FILT	0.062	mg/L C J	FILT	0.200	mg/L C NV
Barium		NA			NA		UNKN	0.200	mg/L C NV
Beryllium		NA			NA		FILT	0.010	mg/L C NV
Beryllium		NA			NA		UNKN	0.010	mg/L C NV
Cadmium	FILT	0.002	mg/L C U	FILT	0.005	mg/L C UJ	FILT	NA	
Calcium	FILT	102.000	mg/L C -	FILT	97.000	mg/L C J	UNKN	95.500	mg/L C NV
Calcium		NA			NA		UNKN	93.100	mg/L C NV
Chromium	FILT	0.020	mg/L C U	FILT	0.020	mg/L C J	FILT	0.005	mg/L C NV
Chromium		NA			NA		UNKN	0.005	mg/L C NV
Cobalt		NA			NA		FILT	0.025	mg/L C NV
Cobalt		NA			NA		UNKN	0.025	mg/L C NV
Copper	FILT	0.010	mg/L C U	FILT	0.010	mg/L C UJ	FILT	0.025	mg/L C NV
Copper		NA			NA		UNKN	0.025	mg/L C NV
Iron	FILT	3.270	mg/L C -	FILT	2.700	mg/L C J	FILT	2.820	mg/L C NV
Iron		NA			NA		UNKN	2.770	mg/L C NV
Lead	FILT	0.006	mg/L C R	FILT	0.002	mg/L C UJ	FILT	0.005	mg/L C NV
Lead		NA			NA		UNKN	0.005	mg/L C NV
Magnesium	FILT	27.900	mg/L C -	FILT	25.000	mg/L C J	FILT	27.400	mg/L C NV
Magnesium		NA			NA		UNKN	25.700	mg/L C NV
Manganese	FILT	0.421	mg/L C -	FILT	0.400	mg/L C J	FILT	0.394	mg/L C NV
Manganese		NA			NA		UNKN	0.399	mg/L C NV
Mercury	FILT	0.000	mg/L C UU	FILT	0.000	mg/L C UJ	NA	NA	
Molybdenum	FILT	0.020	mg/L C UU	FILT	0.010	mg/L C J	NA	NA	
Nickel	FILT	0.020	mg/L C UU	FILT	0.030	mg/L C UJ	FILT	0.005	mg/L C NV
Nickel		NA			NA		UNKN	0.005	mg/L C NV
Potassium	FILT	2.330	mg/L C -	FILT	1.500	mg/L C J	NA	NA	
Selenium	FILT	0.002	mg/L C UJ	FILT	0.005	mg/L C UJ	UNKN	0.001	mg/L C NV
Silver	FILT	0.001	mg/L C U	FILT	0.010	mg/L C UJ	FILT	0.001	mg/L C NV
Silver		NA			NA		UNKN	0.001	mg/L C NV
Sodium	FILT	19.600	mg/L C -	FILT	14.000	mg/L C J	FILT	17.200	mg/L C NV
Sodium		NA			NA		UNKN	18.300	mg/L C NV
Vanadium		NA			NA		FILT	0.050	mg/L C NV
Vanadium		NA			NA		UNKN	0.050	mg/L C NV
Zinc		NA			NA		FILT	0.020	mg/L C NV
Zinc		NA			NA		UNKN	0.020	mg/L C NV
<u>Volatile Organics</u>									
1,1-Dichloroethane		NA			NA		UNFI	2.500	ug/L C NV

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	4102 003720	4102 003919	4102 066739			
SAMPLING DATE	11/18/88	02/23/89	12/07/89			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
1,2-Dichloroethane		NA		NA	UNFI	2.500 ug/L C NV
Acetone		NA		NA	UNKN	2.500 ug/L C NV
Methylene chloride		NA		NA	UNFI	2.500 ug/L C NV
Tetrachloroethene		NA		NA	UNFI	2.500 ug/L C NV
Toluene		NA		NA	UNFI	2.500 ug/L C NV
Trichloroethene		NA		NA	UNFI	2.500 ug/L C NV
<u>General Chemistry</u>						
Ammonia	UNFI	0.440 mg/L C -	UNFI	0.600 mg/L C J	NA	
Chloride	UNFI	23.100 mg/L C -	UNFI	20.000 mg/L C UJ	NA	
Chloride		NA		NA	UNKN	26.000 mg/L C NV
Fluoride	UNFI	0.260 mg/L C -	UNFI	0.200 mg/L C J	UNFI	0.250 mg/L C NV
Nitrate	UNFI	0.100 mg/L C R	UNFI	0.020 mg/L C R	UNFI	0.060 mg/L C NV
Phenols	UNFI	0.010 mg/L C U	UNFI	0.009 mg/L C J	UNFI	0.008 mg/L C NV
Phosphorus	UNFI	0.020 mg/L C U	UNFI	0.050 mg/L C J	NA	
Sulfate	UNFI	43.000 mg/L C J	UNFI	18.000 mg/L C J	UNFI	81.000 mg/L C NV
Total Kjeldahl Nitrogen	UNFI	0.580 mg/L C -	UNFI	0.800 mg/L C J	NA	
Total Organic Carbon		NA		NA	UNFI	2.000 mg/L C NV
Total Organic Halides	UNFI	0.050 mg/L C U	UNFI	0.010 mg/L C U	UNFI	0.010 mg/L C NV
Total Organic Nitrogen	UNFI	0.140 mg/L C -	UNFI	0.200 mg/L C J	NA	

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TABLE D-11A
(Continued)

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PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	4102		4102		
SAMPLE NUMBER.	003206		003413		
	DUPPLICATE		DUPPLICATE		
SAMPLING DATE	05/19/88		08/08/88		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ
	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>					
Arsenic	FILT	0.200	mg/L	C	U
Arsenic	FILT	NA			
Barium	FILT	0.068	mg/L	C	-
Barium	FILT	NA			
Cadmium	FILT	0.005	mg/L	C	U
Cadmium	FILT	NA			
Calcium	FILT	95.300	mg/L	C	-
Calcium	FILT	NA			
Chromium	FILT	0.020	mg/L	C	U
Chromium	FILT	NA			
Copper	FILT	0.010	mg/L	C	U
Copper	FILT	NA			
Iron	FILT	3.080	mg/L	C	-
Iron	FILT	NA			
Lead	FILT	0.050	mg/L	C	U
Lead	FILT	NA			
Magnesium	FILT	26.800	mg/L	C	-
Magnesium	FILT	NA			
Manganese	FILT	0.390	mg/L	C	-
Manganese	FILT	NA			
Mercury	FILT	0.000	mg/L	C	U
Mercury	FILT	NA			
Molybdenum	FILT	0.020	mg/L	C	U
Molybdenum	FILT	NA			
Nickel	FILT	0.020	mg/L	C	U
Nickel	FILT	NA			
Potassium	FILT	1.600	mg/L	C	-
Potassium	FILT	NA			
Selenium	FILT	0.200	mg/L	C	U
Selenium	FILT	NA			
Silver	FILT	0.010	mg/L	C	U
Silver	FILT	NA			
Sodium	FILT	16.800	mg/L	C	-
Sodium	FILT	NA			
<u>General Chemistry</u>					
Ammonia	UNFI	0.500	mg/L	C	J
Chloride	UNFI	28.400	mg/L	C	-
Fluoride	UNFI	0.290	mg/L	C	-
Nitrate	UNFI	0.200	mg/L	C	C
Phenols	UNFI	0.010	mg/L	C	U
	UNFI	0.400	mg/L	C	NV
	UNFI	42.000	mg/L	C	NV
	UNFI	0.200	mg/L	D	NV
	UNFI	2.500	mg/L	C	NV
	UNFI	0.010	mg/L	C	NV

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TABLE D-11A
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER	4102	4102								
SAMPLE NUMBER	003206	003413								
SAMPLING DATE	DUPLICATE 05/19/88	DUPLICATE 08/08/88								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>										
Phosphate		NA				UNFI	0.150	mg/L	C	NV
Phosphorus	UNFI	0.160	mg/L	C	-	UNFI	NA			
Sulfate	UNFI	20.000	mg/L	C	-	UNFI	70.000	mg/L	C	NV
Total Organic Nitrogen	UNFI	0.100	mg/L	C	UJ	UNFI	0.200	mg/L	D	R

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TABLE D-11A
(Continued)

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PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1039 111990			1041 116220			1041 116221					
SAMPLING DATE	04/28/93			05/05/93			05/05/93					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	FILT	16.000	pCi/L	UJ	UNFI	NA			FILT	15.900	pCi/L	UJ
CS-137	FILT	NA			UNFI	16.400	pCi/L	UJ		NA		
GROSS ALPHA	FILT	13.500	pCi/L	UJ	UNFI	NA				NA		
GROSS ALPHA	FILT	NA			UNFI	17.300	pCi/L	UJ		NA		
GROSS BETA	FILT	10.200	pCi/L	UJ	UNFI	NA				NA		
GROSS BETA	FILT	NA			UNFI	15.300	pCi/L	J		NA		
NP-237	FILT	0.198	pCi/L	U	UNFI	NA			FILT	0.450	pCi/L	R
NP-237	FILT	NA			UNFI	0.140	pCi/L	R		NA		
PU-238	FILT	0.109	pCi/L	UJ	UNFI	NA			FILT	0.210	pCi/L	UJ
PU-238	FILT	NA			UNFI	0.100	pCi/L	UJ		NA		
PU-239/240	FILT	0.133	pCi/L	UJ	UNFI	NA			FILT	0.210	pCi/L	UJ
PU-239/240	FILT	NA			UNFI	0.100	pCi/L	UJ		NA		
RA-226	FILT	0.183	pCi/L	UJ	UNFI	NA			FILT	0.100	pCi/L	UJ
RA-226	FILT	NA			UNFI	0.310	pCi/L	J		NA		
RA-228	FILT	2.480	pCi/L	UJ	UNFI	NA			FILT	1.360	pCi/L	UJ
RA-228	FILT	NA			UNFI	1.290	pCi/L	UJ		NA		
RU-106	FILT	118.000	pCi/L	UJ	UNFI	NA			FILT	153.000	pCi/L	UJ
RU-106	FILT	NA			UNFI	144.000	pCi/L	UJ		NA		
SR-90	FILT	0.885	pCi/L	U	UNFI	NA			FILT	0.850	pCi/L	UJ
SR-90	FILT	NA			UNFI	0.870	pCi/L	UJ		NA		
TC-99	FILT	10.000	pCi/L	UJ	UNFI	NA			FILT	10.700	pCi/L	UJ
TC-99	FILT	NA			UNFI	11.100	pCi/L	UJ		NA		
TH-228	FILT	0.209	pCi/L	UJ	UNFI	NA			FILT	1.030	pCi/L	UJ
TH-228	FILT	NA			UNFI	0.780	pCi/L	J		NA		
TH-230	FILT	0.251	pCi/L	J	UNFI	NA			FILT	0.410	pCi/L	UJ
TH-230	FILT	NA			UNFI	1.370	pCi/L	-		NA		
TH-232	FILT	0.054	pCi/L	UJ	UNFI	NA			FILT	1.030	pCi/L	UJ
TH-232	FILT	NA			UNFI	0.740	pCi/L	J		NA		
TH-TOTAL	FILT	0.497	ug/L	UJ	UNFI	NA			FILT	9.480	ug/L	UJ
TH-TOTAL	FILT	NA			UNFI	6.830	ug/L	-		NA		
U-234	FILT	0.391	pCi/L	J	UNFI	NA			FILT	2.450	pCi/L	-
U-234	FILT	NA			UNFI	3.020	pCi/L	-		NA		
U-235/236	FILT	0.058	pCi/L	UJ	UNFI	NA			FILT	0.180	pCi/L	-
U-235/236	FILT	NA			UNFI	0.180	pCi/L	J		NA		
U-238	FILT	0.416	pCi/L	J	UNFI	NA			FILT	2.720	pCi/L	-
U-238	FILT	NA			UNFI	3.330	pCi/L	-		NA		
U-TOTAL	FILT	1.000	ug/L	U	UNFI	NA			FILT	8.300	ug/L	-
U-TOTAL	FILT	NA			UNFI	7.800	ug/L	-		NA		

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TABLE D-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1042 110889		1934 114620 DUPLICATE 05/13/93		1934 114622							
SAMPLING DATE	04/22/93				05/13/93							
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	17.800	pCi/L	UJ	UNFI	13.000	pCi/L	UJ	UNFI	16.100	pCi/L	UJ
GROSS ALPHA	UNFI	27.120	pCi/L	J	UNFI	10.200	pCi/L	UJ	UNFI	23.800	pCi/L	J
GROSS BETA	UNFI	8.530	pCi/L	UJ	UNFI	6.000	pCi/L	UJ	UNFI	31.600	pCi/L	J
NP-237	UNFI	0.100	pCi/L	R	UNFI	0.149	pCi/L	N	UNFI	0.839	pCi/L	N
PU-238	UNFI	0.120	pCi/L	UJ	UNFI	0.211	pCi/L	UJ	UNFI	0.108	pCi/L	UJ
PU-239/240	UNFI	0.100	pCi/L	UJ	UNFI	0.256	pCi/L	UJ	UNFI	0.274	pCi/L	UJ
RA-226	UNFI	0.210	pCi/L	J	UNFI	0.225	pCi/L	-	UNFI	1.400	pCi/L	-
RA-228	UNFI	1.730	pCi/L	UJ	UNFI	1.390	pCi/L	UJ	UNFI	1.870	pCi/L	UJ
RU-106	UNFI	128.000	pCi/L	UJ	UNFI	149.000	pCi/L	UJ	UNFI	146.000	pCi/L	UJ
SR-90	UNFI	3.450	pCi/L	J	UNFI	0.781	pCi/L	UJ	UNFI	0.973	pCi/L	UJ
TC-99	UNFI	8.000	pCi/L	UJ	UNFI	8.200	pCi/L	UJ	UNFI	8.600	pCi/L	UJ
TH-228	UNFI	0.240	pCi/L	UJ	UNFI	0.332	pCi/L	UJ	UNFI	2.870	pCi/L	-
TH-230	UNFI	0.170	pCi/L	UJ	UNFI	0.308	pCi/L	UJ	UNFI	6.670	pCi/L	-
TH-232	UNFI	0.170	pCi/L	UJ	UNFI	0.332	pCi/L	UJ	UNFI	2.600	pCi/L	-
TH-TOTAL	UNFI	1.550	ug/L		UNFI	3.050	ug/L		UNFI	23.900	ug/L	-
U-234	UNFI	11.020	pCi/L	UJ	UNFI	1.810	pCi/L	-	UNFI	6.690	pCi/L	-
U-235/236	UNFI	0.700	pCi/L	UJ	UNFI	0.176	pCi/L	-	UNFI	0.250	pCi/L	-
U-238	UNFI	11.810	pCi/L	J	UNFI	1.890	pCi/L	-	UNFI	5.750	pCi/L	-
U-TOTAL	UNFI	30.400	ug/L	-	UNFI	4.770	ug/L	-	UNFI	17.500	ug/L	-

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TABLE D-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1937 114617				1937 114782				1940 114784			
SAMPLING DATE	05/11/93				06/01/93				06/11/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	18.700	pCi/L	UJ	UNFI	16.000	pCi/L	UJ	UNFI	17.800	pCi/L	UJ
GROSS ALPHA	UNFI	17.200	pCi/L	UJ	UNFI	42.800	pCi/L	J	UNFI	12.180	pCi/L	UJ
GROSS BETA	UNFI	12.900	pCi/L	UJ	UNFI	22.800	pCi/L	UJ	UNFI	7.670	pCi/L	UJ
NP-237	UNFI	0.333	pCi/L	U	UNFI	0.150	pCi/L	U	UNFI	0.339	pCi/L	U
PU-238	UNFI	0.075	pCi/L	UJ	UNFI	0.140	pCi/L	U	UNFI	0.091	pCi/L	U
PU-239/240	UNFI	0.183	pCi/L	U	UNFI	0.053	pCi/L	UJ	UNFI	0.106	pCi/L	U
RA-226	UNFI	0.378	pCi/L	UJ	UNFI	0.980	pCi/L	UJ	UNFI	0.431	pCi/L	U
RA-228	UNFI	2.090	pCi/L	UJ	NA				UNFI	2.980	pCi/L	U
RU-106	UNFI	141.000	pCi/L	UJ	UNFI	143.000	pCi/L	UJ	UNFI	120.000	pCi/L	U
SR-90	UNFI	0.730	pCi/L	UJ	UNFI	0.610	pCi/L	UJ	UNFI	0.758	pCi/L	U
TC-99	UNFI	9.100	pCi/L	UJ	UNFI	12.500	pCi/L	UJ	UNFI	9.400	pCi/L	U
TH-228	UNFI	0.294	pCi/L	UJ	UNFI	2.370	pCi/L	-	UNFI	0.227	pCi/L	U
TH-230	UNFI	3.040	pCi/L	-	UNFI	2.740	pCi/L	J	UNFI	0.123	pCi/L	U
TH-232	UNFI	0.138	pCi/L	UJ	UNFI	1.910	pCi/L	-	UNFI	0.122	pCi/L	U
TH-TOTAL	UNFI	1.260	ug/L	UJ	UNFI	17.400	ug/L	-	UNFI	1.120	ug/L	U
U-234	UNFI	2.420	pCi/L	J	UNFI	3.170	pCi/L	-	UNFI	3.140	pCi/L	-
U-235/236	UNFI	0.078	pCi/L	J	UNFI	0.165	pCi/L	J	UNFI	0.076	pCi/L	-
U-238	UNFI	2.130	pCi/L	-	UNFI	3.190	pCi/L	-	UNFI	2.580	pCi/L	-
U-TOTAL	UNFI	5.160	ug/L	-	UNFI	6.480	ug/L	-	UNFI	6.300	ug/L	-

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TABLE D-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1940 114785			2042 110989			2042 110990					
SAMPLING DATE	06/11/93			05/04/93			05/04/93					
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA				NA			FILT	19.300	pCi/L	UJ
CS-137	UNFI	11.800	pCi/L	UJ	UNFI	18.900	pCi/L	UJ		NA		
GROSS ALPHA	UNFI	30.300	pCi/L	UJ	UNFI	7.510	pCi/L	UJ		NA		
GROSS BETA	UNFI	20.900	pCi/L	J	UNFI	5.230	pCi/L	J		NA		
NP-237		NA				NA			FILT	0.740	pCi/L	R
NP-237	UNFI	0.295	pCi/L	U	UNFI	0.100	pCi/L	N		NA	0.150	pCi/L
PU-238		NA				NA			FILT	NA	pCi/L	UJ
PU-238	UNFI	0.115	pCi/L	UJ	UNFI	0.050	pCi/L	J		NA	0.070	pCi/L
PU-239/240		NA				NA			FILT	NA	pCi/L	UJ
PU-239/240	UNFI	0.144	pCi/L	UJ	UNFI	0.040	pCi/L	UJ		NA	0.150	pCi/L
RA-226		NA				NA			FILT	NA	pCi/L	J
RA-226	UNFI	1.210	pCi/L	J	UNFI	0.120	pCi/L	J		NA	1.940	pCi/L
RA-228		NA				NA			FILT	NA	pCi/L	UJ
RA-228	UNFI	3.680	pCi/L	J	UNFI	1.400	pCi/L	UJ		NA	89.200	pCi/L
RU-106		NA				NA			FILT	NA	pCi/L	UJ
RU-106	UNFI	106.000	pCi/L	UJ	UNFI	168.000	pCi/L	UJ		NA	0.810	pCi/L
SR-90		NA				NA			FILT	NA	11.700	pCi/L
SR-90	UNFI	0.819	pCi/L	UJ	UNFI	0.800	pCi/L	UJ		NA	0.490	pCi/L
TC-99		NA				NA			FILT	NA	0.120	pCi/L
TC-99	UNFI	10.930	pCi/L	UJ	UNFI	11.200	pCi/L	UJ		NA	0.160	pCi/L
TH-228		NA				NA			FILT	NA	1.470	ug/L
TH-228	UNFI	1.360	pCi/L	-	UNFI	0.190	pCi/L	UJ		NA	1.280	pCi/L
TH-230		NA				NA			FILT	NA	0.100	pCi/L
TH-230	UNFI	1.290	pCi/L	-	UNFI	0.250	pCi/L	J		NA	1:310	pCi/L
TH-232		NA				NA			FILT	NA	3.100	ug/L
TH-232	UNFI	0.756	pCi/L	J	UNFI	0.130	pCi/L	UJ		NA	NA	-
TH-TOTAL		NA				NA			FILT	NA	NA	-
TH-TOTAL	UNFI	6.890	ug/L	-	UNFI	1.200	ug/L	UJ		NA	NA	-
U-234		NA				NA			FILT	NA	NA	-
U-234	UNFI	3.340	pCi/L	-	UNFI	1.330	pCi/L	-		NA	NA	-
U-235/236		NA				NA			FILT	NA	NA	-
U-235/236	UNFI	0.212	pCi/L	J	UNFI	0.160	pCi/L	J		NA	NA	-
U-238		NA				NA			FILT	NA	NA	-
U-238	UNFI	3.670	pCi/L	-	UNFI	1.230	pCi/L	-		NA	NA	-
U-TOTAL		NA				NA			FILT	NA	NA	-
U-TOTAL	UNFI	7.620	ug/L	-	UNFI	2.910	ug/L	-		NA	NA	-

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TABLE D-11A
(Continued)

PHASE-II - RADIOLOGICAL PARAMETERS

BORING NUMBER	2042				2042				2935			
SAMPLE NUMBER	110994				110995				114921			
SAMPLING DATE	DUPLICATE 05/04/93				DUPLICATE 05/04/93				06/13/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			FILT	13.500	pCi/L	UJ	FILT	13.500	pCi/L	UJ
CS-137	UNFI	15.400	pCi/L	UJ		NA			UNFI	14.600	pCi/L	UJ
GROSS ALPHA		NA				NA			FILT	7.440	pCi/L	UJ
GROSS ALPHA	UNFI	7.770	pCi/L	UJ		NA			UNFI	8.020	pCi/L	UJ
GROSS BETA		NA				NA			FILT	5.040	pCi/L	UJ
GROSS BETA	UNFI	7.880	pCi/L	J		NA			UNFI	4.710	pCi/L	UJ
NP-237		NA			FILT	0.360	pCi/L	N	FILT	0.400	pCi/L	N
NP-237	UNFI	0.360	pCi/L	N		NA			UNFI	0.287	pCi/L	UJ
PU-238		NA			FILT	0.140	pCi/L	UJ	FILT	0.062	pCi/L	J
PU-238	UNFI	0.190	pCi/L	J		NA			UNFI	0.050	pCi/L	J
PU-239/240		NA			FILT	0.210	pCi/L	UJ	FILT	0.170	pCi/L	UJ
PU-239/240	UNFI	0.100	pCi/L	UJ		NA			UNFI	0.111	pCi/L	UJ
RA-226		NA			FILT	0.150	pCi/L	UJ	FILT	0.364	pCi/L	J
RA-226	UNFI	0.270	pCi/L	J		NA			UNFI	0.791	pCi/L	J
RA-228		NA			FILT	2.310	pCi/L	UJ	FILT	2.160	pCi/L	UJ
RA-228	UNFI	2.080	pCi/L	UJ		NA			UNFI	2.750	pCi/L	UJ
RU-106		NA			FILT	111.000	pCi/L	UJ	FILT	136.000	pCi/L	UJ
RU-106	UNFI	127.000	pCi/L	UJ		NA			UNFI	105.000	pCi/L	UJ
SR-90		NA			FILT	1.810	pCi/L	U	FILT	0.732	pCi/L	UJ
SR-90	UNFI	0.840	pCi/L	UJ		NA			UNFI	0.770	pCi/L	UJ
TC-99		NA			FILT	11.100	pCi/L	UJ	FILT	8.900	pCi/L	UJ
TC-99	UNFI	10.700	pCi/L	UJ		NA			UNFI	8.700	pCi/L	UJ
TH-228		NA			FILT	0.300	pCi/L	UJ	FILT	0.046	pCi/L	J
TH-228	UNFI	0.190	pCi/L	UJ		NA			UNFI	0.211	pCi/L	UJ
TH-228		NA			FILT	0.110	pCi/L	J	FILT	0.181	pCi/L	UJ
TH-230	UNFI	1.030	pCi/L	-		NA			UNFI	0.192	pCi/L	UJ
TH-230		NA			FILT	0.110	pCi/L	J	FILT	0.131	pCi/L	UJ
TH-232	UNFI	0.050	pCi/L	UJ		NA			UNFI	0.139	pCi/L	UJ
TH-232		NA			FILT	1.010	ug/L	-	FILT	1.210	ug/L	UJ
TH-TOTAL	UNFI	0.450	ug/L	UJ		NA			UNFI	1.280	ug/L	UJ
TH-TOTAL		NA			FILT	1.360	pCi/L	-	FILT	1.250	pCi/L	-
U-234	UNFI	1.660	pCi/L	-		NA			UNFI	1.410	pCi/L	-
U-234		NA			FILT	0.150	pCi/L	UJ	FILT	0.115	pCi/L	J
U-235/236	UNFI	0.140	pCi/L	UJ		NA			UNFI	0.076	pCi/L	J
U-235/236		NA			FILT	1.080	pCi/L	-	FILT	1.180	pCi/L	-
U-238	UNFI	1.430	pCi/L	-		NA			UNFI	1.230	pCi/L	-
U-238		NA			FILT	1.360	ug/L	-	FILT	2.590	ug/L	-
U-TOTAL	UNFI	3.390	ug/L	-		NA			UNFI	2.860	ug/L	-

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TABLE D-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137	UNFI	12.500	pc <i>i</i> /L	UJ	UNFI	19.100	pc <i>i</i> /L	UJ	UNFI	19.800	pc <i>i</i> /L	UJ
GROSS ALPHA	UNFI	8.190	pc <i>i</i> /L	UJ	UNFI	7.320	pc <i>i</i> /L	UJ	UNFI	7.140	pc <i>i</i> /L	UJ
GROSS BETA	UNFI	4.780	pc <i>i</i> /L	UJ	UNFI	4.990	pc <i>i</i> /L	UJ	UNFI	4.650	pc <i>i</i> /L	UJ
NP-237	UNFI	0.520	pc <i>i</i> /L	J	UNFI	0.153	pc <i>i</i> /L	UJ	UNFI	0.295	pc <i>i</i> /L	N
PU-238	UNFI	0.046	pc <i>i</i> /L	UJ	UNFI	0.048	pc <i>i</i> /L	UJ	UNFI	0.174	pc <i>i</i> /L	J
PU-239/240	UNFI	0.232	pc <i>i</i> /L	UJ	UNFI	0.100	pc <i>i</i> /L	UJ	UNFI	0.113	pc <i>i</i> /L	UJ
RA-226	UNFI	0.184	pc <i>i</i> /L	UJ	UNFI	0.495	pc <i>i</i> /L	J	UNFI	0.223	pc <i>i</i> /L	J
RA-228	UNFI	2.510	pc <i>i</i> /L	UJ	UNFI	2.220	pc <i>i</i> /L	UJ	UNFI	1.980	pc <i>i</i> /L	UJ
RU-106	UNFI	128.000	pc <i>i</i> /L	UJ	UNFI	131.000	pc <i>i</i> /L	UJ	UNFI	110.000	pc <i>i</i> /L	UJ
SR-90	UNFI	0.727	pc <i>i</i> /L	UJ	UNFI	0.751	pc <i>i</i> /L	UJ	UNFI	0.787	pc <i>i</i> /L	UJ
TC-99	UNFI	9.000	pc <i>i</i> /L	UJ	UNFI	9.000	pc <i>i</i> /L	UJ	UNFI	10.100	pc <i>i</i> /L	UJ
TH-228	UNFI	0.204	pc <i>i</i> /L	UJ	UNFI	0.165	pc <i>i</i> /L	UJ	UNFI	0.256	pc <i>i</i> /L	UJ
TH-230	UNFI	0.119	pc <i>i</i> /L	UJ	UNFI	0.144	pc <i>i</i> /L	-	UNFI	0.220	pc <i>i</i> /L	J
TH-232	UNFI	0.134	pc <i>i</i> /L	UJ	UNFI	0.119	pc <i>i</i> /L	UJ	UNFI	0.138	pc <i>i</i> /L	UJ
TH-TOTAL	UNFI	1.230	ug/L	UJ	UNFI	1.090	ug/L	UJ	UNFI	1.270	ug/L	UJ
U-234	UNFI	1.760	pc <i>i</i> /L	UJ	UNFI	1.740	pc <i>i</i> /L	UJ	UNFI	1.800	pc <i>i</i> /L	-
U-235/236	UNFI	0.120	pc <i>i</i> /L	UJ	UNFI	0.088	pc <i>i</i> /L	UJ	UNFI	0.201	pc <i>i</i> /L	J
U-238	UNFI	1.940	pc <i>i</i> /L	UJ	UNFI	1.390	pc <i>i</i> /L	J	UNFI	1.290	pc <i>i</i> /L	-
U-TOTAL	UNFI	3.640	ug/L	J	UNFI	3.790	ug/L	J	UNFI	3.430	ug/L	-

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TABLE D-11A
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2936 114918 DUPLICATE 06/12/93				2939 114924 06/13/93			
RADIOLOGICAL PARAMETERS	FLTD	RESULTS	UNITS	VQ	FLTD	RESULTS	UNITS	VQ
CS-137		NA			FILT	13.000	pCi/L	UJ
CS-137	UNFI	15.300	pCi/L	UJ	UNFI	13.300	pCi/L	UJ
GROSS ALPHA		NA			FILT	8.190	pCi/L	UJ
GROSS ALPHA	UNFI	5.350	pCi/L	UJ	UNFI	7.460	pCi/L	UJ
GROSS BETA		NA			FILT	6.180	pCi/L	J
GROSS BETA	UNFI	5.610	pCi/L	J	UNFI	5.080	pCi/L	J
NP-237		NA			FILT	0.376	pCi/L	N
NP-237	UNFI	0.317	pCi/L	N	UNFI	0.122	pCi/L	R
PU-238		NA			FILT	0.054	pCi/L	UJ
PU-238	UNFI	0.135	pCi/L	UJ	UNFI	0.059	pCi/L	UJ
PU-239/240		NA			FILT	0.217	pCi/L	UJ
PU-239/240	UNFI	0.135	pCi/L	UJ	UNFI	0.148	pCi/L	UJ
RA-226		NA			FILT	0.199	pCi/L	UJ
RA-226	UNFI	0.443	pCi/L	J	UNFI	0.225	pCi/L	UJ
RA-228		NA			FILT	2.770	pCi/L	UJ
RA-228	UNFI	1.960	pCi/L	J	UNFI	2.730	pCi/L	UJ
RU-106		NA			FILT	137.000	pCi/L	UJ
RU-106	UNFI	137.000	pCi/L	UJ	UNFI	130.000	pCi/L	UJ
SR-90		NA			FILT	0.728	pCi/L	UJ
SR-90	UNFI	0.804	pCi/L	UJ	UNFI	0.754	pCi/L	UJ
TC-99		NA			FILT	8.800	pCi/L	UJ
TC-99	UNFI	9.600	pCi/L	UJ	UNFI	9.000	pCi/L	UJ
TH-228		NA			FILT	0.251	pCi/L	UJ
TH-228	UNFI	0.107	pCi/L	J	UNFI	0.186	pCi/L	UJ
TH-230		NA			FILT	0.173	pCi/L	UJ
TH-230	UNFI	0.224	pCi/L	UJ	UNFI	0.186	pCi/L	UJ
TH-232		NA			FILT	0.156	pCi/L	UJ
TH-232	UNFI	0.244	pCi/L	UJ	UNFI	0.164	pCi/L	UJ
TH-TOTAL		NA			FILT	1.440	ug/L	UJ
TH-TOTAL	UNFI	2.240	ug/L	UJ	UNFI	1.510	ug/L	UJ
U-234		NA			FILT	0.547	pCi/L	UJ
U-234	UNFI	1.800	pCi/L	-	UNFI	0.129	pCi/L	UJ
U-235/236		NA			FILT	0.072	pCi/L	J
U-235/236	UNFI	0.167	pCi/L	J	UNFI	0.046	pCi/L	J
U-238		NA			FILT	0.592	pCi/L	J
U-238	UNFI	1.230	pCi/L	-	UNFI	0.579	pCi/L	J
U-TOTAL		NA			FILT	1.600	ug/L	-
U-TOTAL	UNFI	3.490	ug/L	-	UNFI	1.630	ug/L	-

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1039	1041				1041					
SAMPLE NUMBER	111990	116220				116221					
SAMPLING DATE	04/28/93	05/05/93				05/05/93					
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	
<u>Inorganics</u>											
Aluminum	FILT	0.071	mg/L	C	U	UNFI	NA	8.600	mg/L	D	-
Antimony	FILT	0.001	mg/L	C	U	UNFI	NA	0.003	mg/L	D	UJ
Antimony	FILT	0.001	mg/L	C	U	UNFI	NA	0.004	mg/L	C	U
Arsenic	FILT	0.126	mg/L	C	-	UNFI	NA	0.108	mg/L	D	-
Arsenic	FILT	0.003	mg/L	C	U	UNFI	NA	0.002	mg/L	D	-
Barium	FILT	118.000	mg/L	C	-	UNFI	NA	170.000	mg/L	D	-
Barium	FILT	0.004	mg/L	C	U	UNFI	NA	0.032	mg/L	D	-
Beryllium	FILT	0.003	mg/L	C	U	UNFI	NA	0.009	mg/L	D	-
Beryllium	FILT	0.509	mg/L	C	-	UNFI	NA	0.020	mg/L	D	U
Cadmium	FILT	0.001	mg/L	C	U	UNFI	NA	0.001	mg/L	D	U
Cadmium	FILT	0.001	mg/L	C	U	UNFI	NA	17.600	mg/L	D	-
Calcium	FILT	44.900	mg/L	C	-	UNFI	NA	0.010	mg/L	D	-
Calcium	FILT	0.418	mg/L	C	-	UNFI	NA	65.100	mg/L	D	-
Chromium	FILT	0.000	mg/L	C	U	UNFI	NA	1.210	mg/L	D	-
Cobalt	FILT	0.005	mg/L	C	-	UNFI	NA	0.000	mg/L	D	U
Cobalt	FILT	0.004	mg/L	C	-	UNFI	NA	0.006	mg/L	D	U
Copper	FILT	0.654	mg/L	C	U	UNFI	NA	0.029	mg/L	D	-
Cyanide	FILT	0.001	mg/L	C	U	UNFI	NA	2.990	mg/L	D	-
Cyanide	FILT	5.680	mg/L	C	-	UNFI	NA	0.001	mg/L	D	UJ
Iron	FILT	NA	mg/L	C	-	UNFI	NA	17.900	mg/L	D	-
Iron	FILT	NA	mg/L	C	-						
Lead	FILT	0.001	mg/L	C	U						
Lead	FILT	0.001	mg/L	C	U						
Magnesium	FILT	44.900	mg/L	C	-						
Magnesium	FILT	0.418	mg/L	C	-						
Manganese	FILT	0.000	mg/L	C	U						
Manganese	FILT	0.005	mg/L	C	-						
Mercury	FILT	0.004	mg/L	C	-						
Molybdenum	FILT	0.004	mg/L	C	-						
Molybdenum	FILT	0.654	mg/L	C	U						
Nickel	FILT	0.001	mg/L	C	U						
Nickel	FILT	5.680	mg/L	C	-						
Potassium	FILT	NA	mg/L	C	-						
Potassium	FILT	NA	mg/L	C	-						
Selenium	FILT	0.001	mg/L	C	U						
Selenium	FILT	NA	mg/L	C	-						
Silicon	FILT	NA	mg/L	C	-						
Silicon	FILT	NA	mg/L	C	-						

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1039 111990				1041 116220				1041 116221								
SAMPLING DATE	04/28/93				05/05/93				05/05/93								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
<u>Inorganics</u>																	
Silver	FILT	0.002	mg/L	C	U	UNFI	NA	0.002	mg/L	D	U	FILT	0.002	mg/L	C	U	
Silver	FILT	NA	mg/L	C	-	UNFI	NA	21.500	mg/L	D	-	FILT	NA	29.800	mg/L	C	-
Sodium	FILT	157.000	mg/L	C	-	UNFI	NA	0.001	mg/L	D	U	FILT	NA	0.001	mg/L	C	U
Sodium	FILT	NA	mg/L	C	-	UNFI	NA	0.012	mg/L	C	U	FILT	NA	0.008	mg/L	C	U
Thallium	FILT	0.001	mg/L	C	U	UNFI	NA	0.027	mg/L	D	-	FILT	NA	0.002	mg/L	C	U
Thallium	FILT	NA	mg/L	C	-	UNFI	NA	0.004	mg/L	C	-	FILT	NA	0.064	mg/L	D	-
Zinc	FILT	NA	mg/L	C	-	UNFI	NA	0.002	mg/L	C	U	FILT	NA	0.002	mg/L	C	U
Zinc	FILT	NA	mg/L	C	-	UNFI	NA	0.002	mg/L	C	U	FILT	NA	0.002	mg/L	C	U
<u>Volatile Organics</u>																	
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
1,1-Dichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
1,1-Dichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
1,2-Dichloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
1,2-Dichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
1,2-Dichloropropane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
2-Butanone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
2-Hexanone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Acetone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Benzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Bromodichloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Bromoform	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Bromomethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Carbon Tetrachloride	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Carbon disulfide	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Chlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Chloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Chloroform	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Chloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Dibromochloromethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Ethylbenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Methylene chloride	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Styrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Tetrachloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Toluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	
Trichloroethene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U	UNFI	10.000	ug/L	D	U	NA	

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1039 111990				1041 116220				1041 116221						
SAMPLING DATE	04/28/93				05/05/93				05/05/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Vinyl Acetate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
Vinyl chloride	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U		NA			
Xylenes, Total	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U		NA			
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	U	UNFI	50.000	ug/L	D	U		NA			
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
2-Chloronaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
2-Chlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
2-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
2-Nitroaniline	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U		NA			
2-Nitrophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
3-Nitroaniline	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U		NA			
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U		NA			
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
4-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
4-Nitroaniline	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	D	U		NA			
4-Nitrophenol	UNFI	25.000	ug/L	C	R	UNFI	25.000	ug/L	D	U		NA			
Acenaphthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
Acenaphthylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
Anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
Benz(a)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
Benz(a)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
Benz(b)fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
Benz(g,h,i)perylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U		NA			
Benz(k)fluoranthene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U		NA			

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1039	111990	1041	116220	1041	116221									
SAMPLING DATE	04/28/93			05/05/93			05/05/93								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Benzoic acid	UNFI	50.000	ug/L	C	U	UNFI	50.000	ug/L	D	R		NA			
Benzyl alcohol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Carbazole	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Chrysene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Di-n-butyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Di-n-octyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Dibenz(a,h)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Dibenzofuran	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Diethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Dimethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Fluorene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Hexachlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Hexachlorobutadiene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Hexachloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Isophorone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Naphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Nitrobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Pentachlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	R		NA			
Phenanthrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Phenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
Pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C	U	UNFI	2.000	ug/L	D	R		NA			
p-Chloroaniline	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	R		NA			
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	R		NA			
4,4'-DDE	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	R		NA			
4,4'-DDT	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	R		NA			
Aldrin	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	D	R		NA			
Aroclor-1016	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	D	R		NA			
Aroclor-1221	UNFI	2.000	ug/L	C	U	UNFI	2.000	ug/L	D	R		NA			
Aroclor-1232	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	D	R		NA			

TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1039 111990	1041 116220	1041 116221			
SAMPLING DATE	04/28/93	05/05/93	05/05/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
Aroclor-1242	UNFI	1.000 ug/L C U	UNFI	1.000 ug/L D U		NA
Aroclor-1248	UNFI	1.000 ug/L C U	UNFI	1.000 ug/L D U		NA
Aroclor-1254	UNFI	1.000 ug/L C U	UNFI	1.000 ug/L D U		NA
Aroclor-1260	UNFI	1.000 ug/L C U	UNFI	1.000 ug/L D U		NA
Dieldrin	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D U		NA
Endosulfan II	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D U		NA
Endosulfan sulfate	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D U		NA
Endosulfan-I	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D U		NA
Endrin	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D U		NA
Endrin aldehyde	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D U		NA
Endrin ketone	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D U		NA
Heptachlor	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D U		NA
Heptachlor epoxide	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D U		NA
Methoxychlor	UNFI	0.500 ug/L C U	UNFI	0.500 ug/L D U		NA
Toxaphene	UNFI	5.000 ug/L C U	UNFI	5.000 ug/L D U		NA
alpha-BHC	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D U		NA
alpha-Chlordane	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D U		NA
beta-BHC	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D U		NA
delta-BHC	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D U		NA
gamma-BHC (Lindane)	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D U		NA
gamma-Chlordane	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D U		NA
<u>General Chemistry</u>						
Alkalinity	NA		UNFI	437.900 mg/L B -		NA
Alkalinity as CaCO ₃	UNFI	250.000 mg/L B -	NA			NA
Ammonia	UNFI	0.100 mg/L B -	UNFI	0.100 mg/L B -		NA
Chloride	UNFI	360.230 mg/L B -	UNFI	44.070 mg/L B -		NA
Fluoride	UNFI	0.330 mg/L B -	UNFI	0.230 mg/L B -		NA
Nitrate	UNFI	0.100 mg/L B -	UNFI	0.100 mg/L B -		NA
Phenols	UNFI	0.010 mg/L B -	UNFI	0.010 mg/L B -		NA
Phosphorus	UNFI	0.040 mg/L B -	NA			NA
Sulfate	UNFI	123.400 mg/L B -	UNFI	72.100 mg/L B -		NA
Sulfide	UNFI	0.500 mg/L B -	UNFI	0.500 mg/L B -		NA
Total Kjeldahl Nitrogen	UNFI	0.130 mg/L B -	UNFI	0.180 mg/L B -		NA
Total Organic Carbon	UNFI	1.220 mg/L B -	UNFI	1.040 mg/L B -		NA
Total Organic Halides	UNFI	0.027 mg/L B -	UNFI	0.030 mg/L B -		NA
Total Organic Nitrogen	UNFI	0.130 mg/L B -	UNFI	0.180 mg/L B -		NA
Total Phosphorous	NA		UNFI	0.220 mg/L B -		NA

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1042 110889	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ		
<u>Inorganics</u>																		
Aluminum	FILT	0.252	mg/L	C	U		UNFI	NA	0.090	mg/L	D	-	UNFI	NA	49.800	mg/L	C	-
Aluminum	FILT	NA	0.005	mg/L	C	U	UNFI	NA	0.001	mg/L	D	UJ	UNFI	NA	0.003	mg/L	C	UJ
Antimony	FILT	NA	0.002	mg/L	C	UJ	UNFI	NA	0.001	mg/L	D	UJ	UNFI	NA	0.014	mg/L	C	J
Arsenic	FILT	NA	0.078	mg/L	C	-	UNFI	NA	0.147	mg/L	D	-	UNFI	NA	0.444	mg/L	C	-
Arsenic	FILT	NA	0.002	mg/L	C	U	UNFI	NA	0.001	mg/L	D	U	UNFI	NA	0.007	mg/L	C	-
Barium	FILT	NA	138.000	mg/L	C	J	UNFI	NA	96.000	mg/L	D	-	UNFI	NA	781.000	mg/L	C	-
Barium	FILT	NA	0.010	mg/L	C	U	UNFI	NA	0.004	mg/L	D	U	UNFI	NA	0.064	mg/L	C	-
Beryllium	FILT	NA	0.010	mg/L	C	U	UNFI	NA	0.003	mg/L	D	U	UNFI	NA	0.048	mg/L	C	-
Beryllium	FILT	NA	0.020	mg/L	C	U	UNFI	NA	0.002	mg/L	D	U	UNFI	NA	0.113	mg/L	C	-
Cadmium	FILT	NA	0.032	mg/L	C	-	UNFI	NA	0.001	mg/L	D	U	UNFI	NA	0.051	mg/L	C	-
Cadmium	FILT	NA	56.600	mg/L	C	J	UNFI	NA	69.100	mg/L	D	-	UNFI	NA	325.000	mg/L	C	-
Calcium	FILT	NA	0.753	mg/L	C	-	UNFI	NA	0.099	mg/L	D	-	UNFI	NA	3.060	mg/L	C	-
Calcium	FILT	NA	0.020	mg/L	C	U	UNFI	NA	0.000	mg/L	D	U	UNFI	NA	0.000	mg/L	C	U
Chromium	FILT	NA	0.020	mg/L	C	U	UNFI	NA	0.006	mg/L	D	-	UNFI	NA	0.010	mg/L	C	-
Chromium	FILT	NA	0.020	mg/L	C	U	UNFI	NA	0.003	mg/L	D	U	UNFI	NA	0.108	mg/L	C	-
Cobalt	FILT	NA	0.002	mg/L	C	U	UNFI	NA	0.837	mg/L	D	-	UNFI	NA	12.000	mg/L	C	-
Cobalt	FILT	NA	0.020	mg/L	C	U	UNFI	NA	0.001	mg/L	D	UJ	UNFI	NA	0.001	mg/L	C	UJ
Copper	FILT	NA	5.280	mg/L	C	-	UNFI	NA	6.030	mg/L	D	-	UNFI	NA	71.300	mg/L	C	-
Cyanide	FILT	NA	0.010	mg/L	C	U	UNFI	NA										
Iron	FILT	NA	0.040	mg/L	D	-	UNFI	NA	94.800	mg/L	C	-						
Iron	FILT	NA	0.002	mg/L	C	UJ	UNFI	NA										
Lead	FILT	NA	0.001	mg/L	D	U	UNFI	NA										
Lead	FILT	NA	56.600	mg/L	C	J	UNFI	NA										
Magnesium	FILT	NA	0.032	mg/L	C	-	UNFI	NA										
Magnesium	FILT	NA	0.000	mg/L	C	U	UNFI	NA										
Manganese	FILT	NA	0.020	mg/L	C	U	UNFI	NA										
Manganese	FILT	NA	0.020	mg/L	C	U	UNFI	NA										
Mercury	FILT	NA	0.000	mg/L	C	U	UNFI	NA										
Mercury	FILT	NA	0.000	mg/L	C	U	UNFI	NA										
Molybdenum	FILT	NA	0.006	mg/L	D	-	UNFI	NA										
Molybdenum	FILT	NA	0.003	mg/L	D	U	UNFI	NA										
Nickel	FILT	NA	0.753	mg/L	C	-	UNFI	NA										
Nickel	FILT	NA	0.020	mg/L	C	U	UNFI	NA										
Potassium	FILT	NA	0.020	mg/L	C	U	UNFI	NA										
Potassium	FILT	NA	0.020	mg/L	C	U	UNFI	NA										
Selenium	FILT	NA	0.002	mg/L	C	U	UNFI	NA										
Selenium	FILT	NA	0.002	mg/L	C	U	UNFI	NA										
Silicon	FILT	NA	5.280	mg/L	C	-	UNFI	NA										
Silicon	FILT	NA	0.010	mg/L	C	U	UNFI	NA										
Silver	FILT	NA	0.010	mg/L	C	U	UNFI	NA										

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1042 110889	1042 110889	1934 114620	1934 114622 DUPLICATE 05/13/93							
SAMPLING DATE	04/22/93		05/13/93								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ		
<u>Inorganics</u>											
Silver	FILT	NA		UNFI	0.002	mg/L	D U	UNFI	0.002	mg/L	C U
Sodium	FILT	20.800	mg/L	C J	UNFI	NA		UNFI	NA		
Sodium	FILT	NA		UNFI	12.300	mg/L	D -	UNFI	13.600	mg/L	C -
Thallium	FILT	0.002	mg/L	C UJ	UNFI	NA		UNFI	NA		
Thallium	FILT	NA		UNFI	0.001	mg/L	D UJ	UNFI	0.001	mg/L	C UJ
Vanadium	FILT	0.010	mg/L	C U	UNFI	NA		UNFI	NA		
Vanadium	FILT	NA		UNFI	0.008	mg/L	D U	UNFI	0.125	mg/L	C -
Zinc	FILT	0.005	mg/L	C U	UNFI	NA		UNFI	NA		
Zinc	FILT	NA		UNFI	0.003	mg/L	D U	UNFI	0.284	mg/L	C -
<u>Volatile Organics</u>											
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	NA		
1,1,2-Tetrachloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	NA		
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
1,1-Dichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	NA		
1,1-Dichloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	NA		
1,2-Dichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	NA		
1,2-Dichloroethene	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	NA		
1,2-Dichloropropane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	D U	NA		
2-Butanone	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
2-Hexanone	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Acetone	UNFI	10.000	ug/L	C UU	UNFI	4.000	ug/L	D R	NA		
Benzene	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Bromodichloromethane	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Bromoform	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Bromomethane	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Carbon Tetrachloride	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Carbon disulfide	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Chlorobenzene	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Chloroethane	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Chloroform	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Chloromethane	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Dibromochloromethane	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Ethylbenzene	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Methylene chloride	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Styrene	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Tetrachloroethene	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Toluene	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Trichloroethene	UNFI	10.000	ug/L	C UU	UNFI	10.000	ug/L	D UU	NA		
Vinyl Acetate	UNFI	10.000	ug/L	C UU	NA				NA		

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1042	SAMPLE NUMBER	110889	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
SAMPLING DATE	04/22/93									05/13/93								
CHEMICAL PARAMETERS																		
<u>Volatile Organics</u>																		
Vinyl chloride	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
Xylenes, Total	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
<u>Semivolatile Organics</u>																		
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	U				UNFI	25.000	ug/L	D	U					NA
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	R				UNFI	25.000	ug/L	D	U					NA
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2-Benzyl-4-chlorophenol	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2-Chloronaphthalene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2-Chlorophenol	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2-Methylphenol	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
2-Nitroaniline	UNFI	25.000	ug/L	C	U				UNFI	25.000	ug/L	D	U					NA
2-Nitrophenol	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
3-Nitroaniline	UNFI	25.000	ug/L	C	R				UNFI	25.000	ug/L	D	U					NA
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	R				UNFI	25.000	ug/L	D	R					NA
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
4-Methylphenol	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
4-Nitroaniline	UNFI	25.000	ug/L	C	U				UNFI	25.000	ug/L	D	R					NA
4-Nitrophenol	UNFI	25.000	ug/L	C	U				UNFI	25.000	ug/L	D	U					NA
Acenaphthene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
Acenaphthylene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
Anthracene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
Benzo(a)pyrene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	U				UNFI	10.000	ug/L	D	U					NA

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1042	SAMPLE NUMBER	110889		1934		1934								
SAMPLING DATE	04/22/93				114620		114622								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Benzoic acid	UNFI	50.000	ug/L	C	R	UNFI	50.000	ug/L	D	U					NA
Benzyl alcohol	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U					NA
Butyl benzyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Carbazole	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Chrysene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Di-n-butyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Di-n-octyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Dibenzofuran	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Diethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Dimethyl phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Fluorene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Hexachlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Hexachlorobutadiene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C	UJ	UNFI	10.000	ug/L	D	U					NA
Hexachloroethane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Isophorone	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
N-Nitrosodimethylamine	UNFI	10.000	ug/L	C	U		NA								NA
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C	U		NA								NA
Naphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Nitrobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Pentachlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	D	U					NA
Phenanthrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Phenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
Tributyl phosphate	UNFI	10.000	ug/L	C	U		NA								NA
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	UJ					NA
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
p-Chloroaniline	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	D	U					NA
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	U					NA
4,4'-DDE	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	D	U					NA
4,4'-DDT	UNFI	0.100	ug/L	C	UJ	UNFI	0.100	ug/L	D	U					NA
Aldrin	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	D	U					NA
Aroclor-1016	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	D	U					NA

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1042 110889	1934 114620	1934 114622 DUPLICATE 05/13/93			
SAMPLING DATE	04/22/93	05/13/93				
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
Aroclor-1221	UNFI	2.000 ug/L C U	UNFI	2.000 ug/L D U		NA
Aroclor-1232	UNFI	1.000 ug/L C U	UNFI	1.000 ug/L D U		NA
Aroclor-1242	UNFI	1.000 ug/L C U	UNFI	1.000 ug/L D		NA
Aroclor-1248	UNFI	1.000 ug/L C U	UNFI	1.000 ug/L D		NA
Aroclor-1254	UNFI	1.000 ug/L C U	UNFI	1.000 ug/L D		NA
Aroclor-1260	UNFI	1.000 ug/L C U	UNFI	1.000 ug/L D		NA
Dieldrin	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D		NA
Endosulfan II	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D		NA
Endosulfan sulfate	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D		NA
Endosulfan-I	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D		NA
Endrin	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D		NA
Endrin aldehyde	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D		NA
Endrin ketone	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L D		NA
Heptachlor	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D		NA
Heptachlor epoxide	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D		NA
Methoxychlor	UNFI	0.500 ug/L C U	UNFI	0.500 ug/L D		NA
Toxaphene	UNFI	5.000 ug/L C U	UNFI	5.000 ug/L D		NA
alpha-BHC	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D		NA
alpha-Chlordane	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D		NA
beta-BHC	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D		NA
delta-BHC	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D		NA
gamma-BHC (Lindane)	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D		NA
gamma-Chlordane	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L D		NA
<u>General Chemistry</u>						
Alkalinity	UNFI	245.000 mg/L B J	UNFI	385.000 mg/L B -		NA
Ammonia	UNFI	0.100 mg/L B J	UNFI	0.150 mg/L B -		NA
Chloride	UNFI	88.090 mg/L B -	UNFI	47.100 mg/L B -		NA
Fluoride	UNFI	0.200 mg/L B -	UNFI	0.440 mg/L B -		NA
Nitrate	UNFI	0.100 mg/L B R	UNFI	0.100 mg/L B R		NA
Phenols	UNFI	0.010 mg/L B C	UNFI	0.010 mg/L B C		NA
Phosphorus	UNFI	0.020 mg/L B C				NA
Sulfate	UNFI	138.000 mg/L B C	UNFI	77.800 mg/L B -		NA
Sulfide	UNFI	0.500 mg/L B C	UNFI	1.350 mg/L B -		NA
Total Kjeldahl Nitrogen	UNFI	0.100 mg/L B C	UNFI	0.500 mg/L B -		NA
Total Organic Carbon	UNFI	1.400 mg/L B U	UNFI	1.570 mg/L B -		NA
Total Organic Halides	UNFI	0.010 mg/L B U	UNFI	0.018 mg/L B -		NA
Total Organic Nitrogen	UNFI	0.100 mg/L B U	UNFI	1.200 mg/L B -		NA
Total Phosphorous	NA		UNFI	4.130 mg/L B -		NA

TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1937 114617			1937 114626			1937 114782		
SAMPLING DATE	05/11/93			06/01/93			06/01/93		
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Inorganics</u>									
Aluminum	UNFI	0.093	mg/L C	-	NA		UNFI	15.400	mg/L C
Antimony	UNFI	0.007	mg/L C	-	NA		UNFI	0.005	mg/L C
Arsenic	UNFI	0.001	mg/L C	-	NA		UNFI	0.004	mg/L C
Barium	UNFI	0.163	mg/L C	-	NA		UNFI	0.217	mg/L C
Beryllium	UNFI	0.001	mg/L C	-	NA		UNFI	0.002	mg/L C
Cadmium	UNFI	0.002	mg/L C	-	NA		UNFI	0.005	mg/L C
Calcium	UNFI	214.000	mg/L C	-	NA		UNFI	446.000	mg/L C
Chromium	UNFI	0.004	mg/L C	-	NA		UNFI	0.016	mg/L C
Cobalt	UNFI	0.003	mg/L C	-	NA		UNFI	0.010	mg/L C
Copper	UNFI	0.002	mg/L C	-	NA		UNFI	0.010	mg/L C
Cyanide	UNFI	0.001	mg/L C	-	NA		NA		
Iron	UNFI	0.017	mg/L C	-	NA		UNFI	23.700	mg/L C
Lead	UNFI	0.001	mg/L C	-	NA		UNFI	0.015	mg/L C
Magnesium	UNFI	82.000	mg/L C	-	NA		UNFI	144.000	mg/L C
Manganese	UNFI	0.612	mg/L C	-	NA		UNFI	1.290	mg/L C
Mercury	UNFI	0.000	mg/L C	-	NA		UNFI	0.000	mg/L C
Molybdenum	UNFI	0.004	mg/L C	-	NA		UNFI	0.010	mg/L C
Nickel	UNFI	0.003	mg/L C	-	NA		UNFI	0.029	mg/L C
Potassium	UNFI	2.010	mg/L C	-	NA		UNFI	7.400	mg/L C
Selenium	UNFI	0.001	mg/L C	-	NA		UNFI	0.002	mg/L C
Silicon	UNFI	5.950	mg/L C	-	NA		UNFI	31.000	mg/L C
Silver	UNFI	0.002	mg/L C	-	NA		UNFI	0.010	mg/L C
Sodium	UNFI	146.000	mg/L C	-	NA		UNFI	156.000	mg/L C
Thallium	UNFI	0.001	mg/L C	-	NA		UNFI	0.010	mg/L C
Vanadium	UNFI	0.011	mg/L C	-	NA		UNFI	0.038	mg/L C
Zinc	UNFI	0.003	mg/L C	-	NA		UNFI	0.065	mg/L C
<u>Volatile Organics</u>									
1,1,1-Trichloroethane	NA			UNFI	10.000	ug/L C		NA	
1,1,2,2-Tetrachloroethane	NA			UNFI	10.000	ug/L C		NA	
1,1,2-Trichloroethane	NA			UNFI	10.000	ug/L C		NA	
1,1-Dichloroethane	NA			UNFI	10.000	ug/L C		NA	
1,1-Dichloroethene	NA			UNFI	10.000	ug/L C		NA	
1,2-Dichloroethane	NA			UNFI	10.000	ug/L C		NA	
1,2-Dichloroethene	NA			UNFI	10.000	ug/L C		NA	
1,2-Dichloropropane	NA			UNFI	10.000	ug/L C		NA	
2-Butanone	NA			UNFI	10.000	ug/L C		NA	
2-Hexanone	NA			UNFI	10.000	ug/L C		NA	
4-Methyl-2-pentanone	NA			UNFI	10.000	ug/L C		NA	
Acetone	NA			UNFI	10.000	ug/L C		NA	
Benzene	NA			UNFI	10.000	ug/L C		NA	

TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1937	1937	1937			
SAMPLE NUMBER	114617	114626	114782			
SAMPLING DATE	05/11/93	06/01/93	06/01/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
Volatile Organics						
Bromodichloromethane	NA		UNFI	10.000 ug/L C U		NA
Bromoform	NA		UNFI	10.000 ug/L C U		NA
Bromomethane	NA		UNFI	10.000 ug/L C U		NA
Carbon Tetrachloride	NA		UNFI	10.000 ug/L C U		NA
Carbon disulfide	NA		UNFI	10.000 ug/L C U		NA
Chlorobenzene	NA		UNFI	10.000 ug/L C U		NA
Chloroethane	NA		UNFI	10.000 ug/L C U		NA
Chloroform	NA		UNFI	10.000 ug/L C U		NA
Chloromethane	NA		UNFI	10.000 ug/L C U		NA
Dibromochloromethane	NA		UNFI	10.000 ug/L C U		NA
Ethylbenzene	NA		UNFI	10.000 ug/L C U		NA
Methylene chloride	NA		UNFI	10.000 ug/L C U		NA
Styrene	NA		UNFI	10.000 ug/L C U		NA
Tetrachloroethene	NA		UNFI	10.000 ug/L C U		NA
Toluene	NA		UNFI	10.000 ug/L C U		NA
Trichloroethene	NA		UNFI	10.000 ug/L C U		NA
Vinyl Acetate	NA		UNFI	10.000 ug/L C U		NA
Vinyl chloride	NA		UNFI	10.000 ug/L C U		NA
Xylenes, Total	NA		UNFI	10.000 ug/L C U		NA
cis-1,3-Dichloropropene	NA		UNFI	10.000 ug/L C U		NA
trans-1,3-Dichloropropene	NA		UNFI	10.000 ug/L C U		NA
Semivolatile Organics						
1,2,4-Trichlorobenzene	UNFI	10.000 ug/L C U	NA		NA	
1,2-Dichlorobenzene	UNFI	10.000 ug/L C U	NA		NA	
1,3-Dichlorobenzene	UNFI	10.000 ug/L C U	NA		NA	
1,4-Dichlorobenzene	UNFI	10.000 ug/L C U	NA		NA	
2,4,5-Trichlorophenol	UNFI	25.000 ug/L C U	NA		NA	
2,4,6-Trichlorophenol	UNFI	10.000 ug/L C U	NA		NA	
2,4-Dichlorophenol	UNFI	10.000 ug/L C U	NA		NA	
2,4-Dimethylphenol	UNFI	10.000 ug/L C U	NA		NA	
2,4-Dinitrophenol	UNFI	25.000 ug/L C U	NA		NA	
2,4-Dinitrotoluene	UNFI	10.000 ug/L C U	NA		NA	
2,6-Dinitrotoluene	UNFI	10.000 ug/L C U	NA		NA	
2-Chloronaphthalene	UNFI	10.000 ug/L C U	NA		NA	
2-Chlorophenol	UNFI	10.000 ug/L C U	NA		NA	
2-Methylnaphthalene	UNFI	10.000 ug/L C U	NA		NA	
2-Methylphenol	UNFI	10.000 ug/L C U	NA		NA	
2-Nitroaniline	UNFI	25.000 ug/L C U	NA		NA	
2-Nitrophenol	UNFI	10.000 ug/L C U	NA		NA	
3,3'-Dichlorobenzidine	UNFI	10.000 ug/L C U	NA		NA	

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1937 114617	1937 114626	1937 114782			
SAMPLING DATE	05/11/93	06/01/93	06/01/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
3-Nitroaniline	UNFI	25.000 ug/L C U		NA		NA
4,6-Dinitro-2-methylphenol	UNFI	25.000 ug/L C U		NA		NA
4-Bromophenyl phenyl ether	UNFI	10.000 ug/L C U		NA		NA
4-Chloro-3-methylphenol	UNFI	10.000 ug/L C U		NA		NA
4-Chlorophenylphenyl ether	UNFI	10.000 ug/L C U		NA		NA
4-Methylphenol	UNFI	10.000 ug/L C U		NA		NA
4-Nitroaniline	UNFI	25.000 ug/L C R		NA		NA
4-Nitropheno1	UNFI	25.000 ug/L C U		NA		NA
Acenaphthene	UNFI	10.000 ug/L C U		NA		NA
Acenaphthylene	UNFI	10.000 ug/L C U		NA		NA
Anthracene	UNFI	10.000 ug/L C U		NA		NA
Benzo(a)anthracene	UNFI	10.000 ug/L C U		NA		NA
Benzo(a)pyrene	UNFI	10.000 ug/L C U		NA		NA
Benzo(b)fluoranthene	UNFI	10.000 ug/L C U		NA		NA
Benzo(g,h,i)perylene	UNFI	10.000 ug/L C U		NA		NA
Benzo(k)fluoranthene	UNFI	10.000 ug/L C U		NA		NA
Benzoic acid	UNFI	50.000 ug/L C U		NA		NA
Benzyl alcohol	UNFI	10.000 ug/L C U		NA		NA
Butyl benzyl phthalate	UNFI	10.000 ug/L C U		NA		NA
Carbazole	UNFI	10.000 ug/L C U		NA		NA
Chrysene	UNFI	10.000 ug/L C U		NA		NA
Di-n-butyl phthalate	UNFI	10.000 ug/L C U		NA		NA
Di-n-octyl phthalate	UNFI	10.000 ug/L C U		NA		NA
Dibenzo(a,h)anthracene	UNFI	10.000 ug/L C U		NA		NA
Dibenzofuran	UNFI	10.000 ug/L C U		NA		NA
Diethyl phthalate	UNFI	10.000 ug/L C U		NA		NA
Dimethyl phthalate	UNFI	10.000 ug/L C U		NA		NA
Fluoranthene	UNFI	10.000 ug/L C U		NA		NA
Fluorene	UNFI	10.000 ug/L C U		NA		NA
Hexachlorobenzene	UNFI	10.000 ug/L C U		NA		NA
Hexachlorobutadiene	UNFI	10.000 ug/L C U		NA		NA
Hexachlorocyclopentadiene	UNFI	10.000 ug/L C U		NA		NA
Hexachloroethane	UNFI	10.000 ug/L C U		NA		NA
Indeno(1,2,3-cd)pyrene	UNFI	10.000 ug/L C U		NA		NA
Isophorone	UNFI	10.000 ug/L C U		NA		NA
N-Nitroso-di-n-propylamine	UNFI	10.000 ug/L C U		NA		NA
N-Nitrosodiphenylamine	UNFI	10.000 ug/L C U		NA		NA
Naphthalene	UNFI	10.000 ug/L C U		NA		NA
Nitrobenzene	UNFI	10.000 ug/L C U		NA		NA
Pentachlorophenol	UNFI	25.000 ug/L C U		NA		NA
Phenanthrene	UNFI	10.000 ug/L C U		NA		NA
Phenol	UNFI	10.000 ug/L C U		NA		NA

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1937			1937			1937								
SAMPLE NUMBER	114617			114626			114782								
SAMPLING DATE	05/11/93			06/01/93			06/01/93								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Pyrene	UNFI	10.000	ug/L	C	U		NA					NA			
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	U		NA					NA			
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	U		NA					NA			
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	U		NA					NA			
bis(2-Ethylhexyl) phthalate	UNFI	1.000	ug/L	C	U		NA					NA			
p-Chloroaniline	UNFI	10.000	ug/L	C	U		NA					NA			
<u>Pesticide Organics/PCBs</u>												NA			
4,4'-DDD	UNFI	0.100	ug/L	C	U		NA					NA			
4,4'-DDE	UNFI	0.100	ug/L	C	U		NA					NA			
4,4'-DDT	UNFI	0.100	ug/L	C	U		NA					NA			
Aldrin	UNFI	0.050	ug/L	C	U		NA					NA			
Aroclor-1016	UNFI	1.000	ug/L	C	U		NA					NA			
Aroclor-1221	UNFI	2.000	ug/L	C	U		NA					NA			
Aroclor-1232	UNFI	1.000	ug/L	C	U		NA					NA			
Aroclor-1242	UNFI	1.000	ug/L	C	U		NA					NA			
Aroclor-1248	UNFI	1.000	ug/L	C	U		NA					NA			
Aroclor-1254	UNFI	1.000	ug/L	C	U		NA					NA			
Aroclor-1260	UNFI	1.000	ug/L	C	U		NA					NA			
Dieldrin	UNFI	0.100	ug/L	C	U		NA					NA			
Endosulfan II	UNFI	0.100	ug/L	C	U		NA					NA			
Endosulfan sulfate	UNFI	0.100	ug/L	C	U		NA					NA			
Endosulfan-I	UNFI	0.050	ug/L	C	U		NA					NA			
Endrin	UNFI	0.100	ug/L	C	U		NA					NA			
Endrin aldehyde	UNFI	0.100	ug/L	C	U		NA					NA			
Endrin ketone	UNFI	0.100	ug/L	C	U		NA					NA			
Heptachlor	UNFI	0.050	ug/L	C	U		NA					NA			
Heptachlor epoxide	UNFI	0.050	ug/L	C	U		NA					NA			
Methoxychlor	UNFI	0.500	ug/L	C	U		NA					NA			
Toxaphene	UNFI	5.000	ug/L	C	U		NA					NA			
alpha-BHC	UNFI	0.050	ug/L	C	U		NA					NA			
alpha-Chlordane	UNFI	0.050	ug/L	C	U		NA					NA			
beta-BHC	UNFI	0.050	ug/L	C	U		NA					NA			
delta-BHC	UNFI	0.050	ug/L	C	U		NA					NA			
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U		NA					NA			
gamma-Chlordane	UNFI	0.050	ug/L	C	U		NA					NA			
<u>General Chemistry</u>												NA			
Alkalinity	UNFI	292.500	mg/L	B	-		NA					NA			
Ammonia	UNFI	0.140	mg/L	B	-		NA					NA			

TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1937 114617	1937 114626	1937 114782												
SAMPLING DATE	05/11/93	06/01/93	06/01/93												
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Chloride	UNFI	573.800	mg/L	B	-		NA					NA			
Fluoride	UNFI	0.290	mg/L	B	-		NA					NA			
Nitrate	UNFI	0.100	mg/L	B	R		NA					NA			
Phenols	UNFI	0.010	mg/L	B	U		NA					NA			
Sulfate	UNFI	57.400	mg/L	B	-		NA					NA			
Sulfide	UNFI	0.500	mg/L	B	U		NA					NA			
Total Kjeldahl Nitrogen	UNFI	0.290	mg/L	B	-		NA					NA			
Total Organic Carbon	NA					UNFI	1.650	mg/L	C	-		NA			
Total Organic Halides	UNFI	0.067	mg/L	B	-		NA					NA			
Total Organic Nitrogen	UNFI	0.150	mg/L	B	-		NA					NA			
Total Phosphorous	UNFI	1.000	mg/L	B	-		NA					NA			

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1940			1940			2042								
SAMPLE NUMBER	114784			114785			110989								
SAMPLING DATE	06/11/93			06/11/93			05/04/93								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Inorganics</u>															
Aluminum	UNFI	0.786	mg/L	C	-	UNFI	13.100	mg/L	C	-	UNFI	0.092	mg/L	C	U
Antimony	UNFI	0.059	mg/L	C	-	UNFI	0.059	mg/L	C	-	UNFI	0.003	mg/L	C	U
Arsenic	UNFI	0.002	mg/L	C	-	UNFI	0.005	mg/L	C	-	UNFI	0.001	mg/L	C	U
Barium	UNFI	0.176	mg/L	C	-	UNFI	0.212	mg/L	C	-	UNFI	0.043	mg/L	C	U
Beryllium	UNFI	0.000	mg/L	C	-	UNFI	0.001	mg/L	C	-	UNFI	0.001	mg/L	C	U
Cadmium	UNFI	0.003	mg/L	C	-	UNFI	0.003	mg/L	C	-	UNFI	0.002	mg/L	C	U
Calcium	UNFI	146.000	mg/L	C	-	UNFI	283.000	mg/L	C	-	UNFI	115.000	mg/L	C	U
Chromium	UNFI	0.005	mg/L	C	-	UNFI	0.012	mg/L	C	-	UNFI	0.005	mg/L	C	U
Cobalt	UNFI	0.004	mg/L	C	-	UNFI	0.016	mg/L	C	-	UNFI	0.003	mg/L	C	U
Copper	UNFI	0.009	mg/L	C	-	UNFI	0.328	mg/L	C	-	UNFI	0.002	mg/L	C	U
Cyanide	UNFI	0.002	mg/L	C	-	NA	-	-	-	-	UNFI	0.001	mg/L	C	U
Iron	UNFI	1.370	mg/L	C	-	UNFI	26.400	mg/L	C	-	UNFI	2.380	mg/L	C	U
Lead	UNFI	0.002	mg/L	C	-	UNFI	0.017	mg/L	C	-	UNFI	0.001	mg/L	C	U
Magnesium	UNFI	56.400	mg/L	C	-	UNFI	104.000	mg/L	C	-	UNFI	26.500	mg/L	C	U
Manganese	UNFI	0.298	mg/L	C	-	UNFI	0.815	mg/L	C	-	UNFI	1.290	mg/L	C	U
Mercury	UNFI	0.000	mg/L	C	-	UNFI	0.000	mg/L	C	-	UNFI	0.000	mg/L	C	U
Molybdenum	UNFI	0.014	mg/L	C	-	UNFI	0.012	mg/L	C	-	UNFI	0.003	mg/L	C	U
Nickel	UNFI	0.042	mg/L	C	-	UNFI	0.027	mg/L	C	-	UNFI	0.003	mg/L	C	U
Potassium	UNFI	2.980	mg/L	C	-	UNFI	3.780	mg/L	C	-	UNFI	3.160	mg/L	C	U
Selenium	UNFI	0.001	mg/L	C	-	UNFI	0.001	mg/L	C	-	UNFI	0.001	mg/L	C	U
Silicon	UNFI	7.900	mg/L	C	-	UNFI	26.400	mg/L	C	-	UNFI	4.370	mg/L	C	U
Silver	UNFI	0.004	mg/L	C	-	UNFI	0.004	mg/L	C	-	UNFI	0.002	mg/L	C	U
Sodium	UNFI	59.400	mg/L	C	-	UNFI	60.500	mg/L	C	-	UNFI	13.100	mg/L	C	U
Thallium	UNFI	0.001	mg/L	C	-	UNFI	0.001	mg/L	C	-	UNFI	0.001	mg/L	C	U
Vanadium	UNFI	0.002	mg/L	C	-	UNFI	0.029	mg/L	C	-	UNFI	0.010	mg/L	C	U
Zinc	UNFI	0.020	mg/L	C	-	UNFI	0.105	mg/L	C	-	UNFI	0.004	mg/L	C	U
<u>Volatile Organics</u>															
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
1,1-Dichloroethane	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
1,1-Dichloroethene	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
1,2-Dichloroethane	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
1,2-Dichloroethene	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
1,2-Dichloropropane	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
2-Butanone	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
2-Hexanone	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
Acetone	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U
Benzene	UNFI	10.000	ug/L	C	U	NA	-	-	-	-	UNFI	10.000	ug/L	C	U

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1940 114784	1940 114785	2042 110989						
SAMPLING DATE	06/11/93	06/11/93	05/04/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ
<u>Volatile Organics</u>									
Bromodichloromethane	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Bromoform	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Bromomethane	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Carbon Tetrachloride	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Carbon disulfide	UNFI	10.000	ug/L C R		NA		UNFI	10.000	ug/L C U
Chlorobenzene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Chloroethane	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Chloroethane	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Chloroform	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Chloromethane	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Dibromochloromethane	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Ethylbenzene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Methylene chloride	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Styrene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Tetrachloroethene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Toluene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Trichloroethene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Vinyl Acetate		NA			NA		UNFI	10.000	ug/L C U
Vinyl chloride	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
Xylenes, Total	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
<u>Semivolatile Organics</u>									
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
1,2-Dichlorobenzene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
1,3-Dichlorobenzene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
1,4-Dichlorobenzene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L C U		NA		UNFI	25.000	ug/L C U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2,4-Dichlorophenol	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2,4-Dimethylphenol	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2,4-Dinitrophenol	UNFI	25.000	ug/L C U		NA		UNFI	25.000	ug/L C U
2,4-Dinitrotoluene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2,6-Dinitrotoluene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2-Benzyl-4-chlorophenol	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2-Chloronaphthalene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2-Chlorophenol	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2-Methylnaphthalene	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2-Methylphenol	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U
2-Nitroaniline	UNFI	25.000	ug/L C U		NA		UNFI	25.000	ug/L C U
2-Nitrophenol	UNFI	10.000	ug/L C U		NA		UNFI	10.000	ug/L C U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

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BORING NUMBER SAMPLE NUMBER	1940 114784				1940 114785				2042 110989			
SAMPLING DATE	06/11/93				06/11/93				05/04/93			
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>												
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
3-Nitroaniline	UNFI	25.000	ug/L	C U		NA			UNFI	25.000	ug/L	C U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C UJ		NA			UNFI	25.000	ug/L	C UJ
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
4-Methylphenol	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
4-Nitroaniline	UNFI	25.000	ug/L	C UJ		NA			UNFI	25.000	ug/L	C UJ
4-Nitrophenol	UNFI	25.000	ug/L	C U		NA			UNFI	25.000	ug/L	C U
Acenaphthene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Acenaphthylene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Anthracene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Benzo(a)anthracene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Benzo(a)pyrene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Benzoic acid	UNFI	50.000	ug/L	C U		NA			UNFI	50.000	ug/L	C R
Benzyl alcohol	UNFI	10.000	ug/L	C R		NA			UNFI	10.000	ug/L	C UJ
Butyl benzyl phthalate	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Carbazole	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Chrysene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Di-n-butyl phthalate	UNFI	10.000	ug/L	C UJ		NA			UNFI	10.000	ug/L	C U
Di-n-octyl phthalate	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C R
Dibenzo(a,h)anthracene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C UJ
Dibenzofuran	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Diethyl phthalate	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Dimethyl phthalate	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Fluoranthene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Fluorene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Hexachlorobenzene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Hexachlorobutadiene	UNFI	10.000	ug/L	C UJ		NA			UNFI	10.000	ug/L	C U
Hexachlorocyclopentadiene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Hexachloroethane	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Indeno(1,2,3-cd)pyrene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Isophorone	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
N-Nitroso-di-n-propylamine	UNFI	10.000	ug/L	C UJ		NA			UNFI	10.000	ug/L	C U
N-Nitrosodimethylamine	UNFI	10.000	ug/L	C UJ		NA			UNFI	10.000	ug/L	C U
N-Nitrosodiphenylamine	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Naphthalene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Nitrobenzene	UNFI	10.000	ug/L	C U		NA			UNFI	10.000	ug/L	C U
Pentachlorophenol	UNFI	25.000	ug/L	C UJ		NA			UNFI	25.000	ug/L	C U

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1940 114784				1940 114785				2042 110989						
SAMPLING DATE	06/11/93				06/11/93				05/04/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>															
Phenanthrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Pheno1	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Pyrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Tributyl phosphate	UNFI	10.000	ug/L	C	U		NA				NA				
bis(2-Chloroethoxy)methane	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
bis(2-Chloroethyl)ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
bis(2-Chloroisopropyl) ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
bis(2-Ethylhexyl) phthalate	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
p-Chloroaniline	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
<u>Pesticide Organics/PCBs</u>															
4,4'-DDD	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
4,4'-DDE	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
4,4'-DDT	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Aldrin	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
Aroclor-1016	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1221	UNFI	2.000	ug/L	C	U		NA				UNFI	2.000	ug/L	C	U
Aroclor-1232	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1242	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1248	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1254	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Aroclor-1260	UNFI	1.000	ug/L	C	U		NA				UNFI	1.000	ug/L	C	U
Dieldrin	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endosulfan II	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endosulfan sulfate	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endosulfan-I	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
Endrin	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endrin aldehyde	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Endrin ketone	UNFI	0.100	ug/L	C	U		NA				UNFI	0.100	ug/L	C	U
Heptachlor	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
Heptachlor epoxide	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
Methoxychlor	UNFI	0.500	ug/L	C	U		NA				UNFI	0.500	ug/L	C	U
Toxaphene	UNFI	5.000	ug/L	C	U		NA				UNFI	5.000	ug/L	C	U
alpha-BHC	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
alpha-Chlordane	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
beta-BHC	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
delta-BHC	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
gamma-Chlordane	UNFI	0.050	ug/L	C	U		NA				UNFI	0.050	ug/L	C	U
<u>General Chemistry</u>															
Alkalinity	UNFI	327.500	mg/L	B	-		NA				UNFI	255.500	mg/L	B	-

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1940				1940				2042						
SAMPLE NUMBER	114784				114785				110989						
SAMPLING DATE	06/11/93				06/11/93				05/04/93						
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>															
Ammonia	UNFI	0.100	mg/L	B	U		NA			UNFI	0.100	mg/L	B	U	
Chloride	UNFI	180.780	mg/L	B	-		NA			UNFI	18.820	mg/L	B	-	
Fluoride	UNFI	0.280	mg/L	B	-		NA			UNFI	0.130	mg/L	B	-	
Nitrate	UNFI	0.100	mg/L	B	R		NA			UNFI	1.460	mg/L	B	J	
Phenols	UNFI	0.010	mg/L	B	U		NA			UNFI	0.010	mg/L	B	U	
Sulfate	UNFI	147.500	mg/L	B	-		NA			UNFI	130.800	mg/L	B	-	
Sulfide	UNFI	0.500	mg/L	B	U		NA			UNFI	0.500	mg/L	B	U	
Total Kjeldahl Nitrogen	UNFI	0.380	mg/L	B	-		NA			UNFI	0.110	mg/L	B	-	
Total Organic Carbon	UNFI	1.220	mg/L	B	-		NA			UNFI	1.000	mg/L	B	U	
Total Organic Halides	UNFI	0.032	mg/L	B	J		NA			UNFI	0.010	mg/L	B	U	
Total Organic Nitrogen	UNFI	0.380	mg/L	B	-		NA			UNFI	0.110	mg/L	B	-	
Total Phosphorous	UNFI	0.700	mg/L	B	-		NA			UNFI	0.040	mg/L	B	-	

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2042 110990	2042 110994 DUPLICATE 05/04/93	2042 110995 DUPLICATE 05/04/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Aluminum	UNFI	NA	UNFI	NA	FILT	0.079 mg/L C U
Aluminum	UNFI	0.075 mg/L C U	UNFI	0.114 mg/L C -	FILT	0.004 mg/L C UJ
Antimony	UNFI	NA	UNFI	0.003 mg/L C UJ	FILT	0.001 mg/L C U
Antimony	UNFI	0.003 mg/L C UJ	UNFI	NA	FILT	NA
Arsenic	UNFI	NA	UNFI	0.001 mg/L C U	FILT	NA
Arsenic	UNFI	0.001 mg/L C U	UNFI	0.001 mg/L C U	FILT	0.038 mg/L C -
Barium	UNFI	NA	UNFI	NA	FILT	NA
Barium	UNFI	0.028 mg/L C -	UNFI	0.048 mg/L C -	FILT	0.001 mg/L C U
Beryllium	UNFI	NA	UNFI	NA	FILT	NA
Beryllium	UNFI	0.001 mg/L C U	UNFI	0.001 mg/L C U	FILT	0.002 mg/L C U
Cadmium	UNFI	NA	UNFI	NA	FILT	NA
Cadmium	UNFI	0.002 mg/L C U	UNFI	0.002 mg/L C U	FILT	119.000 mg/L C -
Calcium	UNFI	NA	UNFI	NA	FILT	NA
Calcium	UNFI	118.000 mg/L C -	UNFI	117.000 mg/L C -	FILT	0.004 mg/L C U
Chromium	UNFI	NA	UNFI	NA	FILT	NA
Chromium	UNFI	0.004 mg/L C U	UNFI	0.015 mg/L C -	FILT	0.003 mg/L C U
Cobalt	UNFI	NA	UNFI	NA	FILT	NA
Cobalt	UNFI	0.003 mg/L C U	UNFI	0.004 mg/L C -	FILT	0.005 mg/L C U
Copper	UNFI	NA	UNFI	NA	FILT	NA
Copper	UNFI	0.002 mg/L C U	UNFI	0.009 mg/L C U	FILT	0.001 mg/L C R
Cyanide	FILT	0.001 mg/L C R	UNFI	0.001 mg/L C U	FILT	NA
Cyanide	UNFI	NA	UNFI	NA	FILT	0.821 mg/L C -
Iron	UNFI	NA	UNFI	4.720 mg/L C J	FILT	0.001 mg/L C U
Iron	UNFI	0.098 mg/L C U	UNFI	NA	FILT	NA
Lead	UNFI	NA	UNFI	0.001 mg/L C U	FILT	26.900 mg/L C -
Lead	UNFI	0.001 mg/L C U	UNFI	NA	FILT	0.459 mg/L C -
Magnesium	UNFI	NA	UNFI	NA	FILT	0.000 mg/L C U
Magnesium	UNFI	NA	UNFI	0.000 mg/L C U	FILT	0.003 mg/L C U
Manganese	UNFI	26.900 mg/L C -	UNFI	25.900 mg/L C -	FILT	NA
Manganese	UNFI	NA	UNFI	NA	FILT	NA
Mercury	UNFI	0.095 mg/L C -	UNFI	2.080 mg/L C J	FILT	NA
Mercury	UNFI	NA	UNFI	NA	FILT	NA
Molybdenum	UNFI	0.000 mg/L C U	UNFI	0.000 mg/L C U	FILT	0.003 mg/L C U
Molybdenum	UNFI	NA	UNFI	NA	FILT	NA
Nickel	UNFI	0.003 mg/L C U	UNFI	0.004 mg/L C U	FILT	0.003 mg/L C U
Nickel	UNFI	NA	UNFI	NA	FILT	NA
Potassium	UNFI	0.003 mg/L C U	UNFI	0.004 mg/L C -	FILT	3.160 mg/L C -
Potassium	UNFI	NA	UNFI	NA	FILT	0.001 mg/L C U
Selenium	UNFI	3.100 mg/L C -	UNFI	3.060 mg/L C -	FILT	NA
Selenium	UNFI	NA	UNFI	0.001 mg/L C U	FILT	4.270 mg/L C -
Silicon	UNFI	0.001 mg/L C U	UNFI	NA	FILT	NA
Silicon	UNFI	NA	UNFI	4.330 mg/L C -	FILT	NA
Silicon	UNFI	4.280 mg/L C -	UNFI	NA	FILT	NA

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2042	SAMPLE NUMBER	110990	SAMPLING DATE	05/04/93	CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
Inorganics																					
Silver	UNFI	NA					UNFI	NA					FILT	0.002	mg/L	C	U				
Silver		0.002	mg/L	C	U									NA							
Sodium	UNFI	NA					UNFI	NA					FILT	13.000	mg/L	C	-				
Sodium		13.100	mg/L	C	-									NA							
Thallium	UNFI	NA					UNFI	NA					FILT	0.001	mg/L	C	U				
Thallium		0.001	mg/L	C	U									NA							
Vanadium	UNFI	NA					UNFI	NA					FILT	0.007	mg/L	C	U				
Vanadium		0.008	mg/L	C	U									NA							
Zinc	UNFI	NA					UNFI	NA					FILT	0.007	mg/L	C	U				
Zinc		0.005	mg/L	C	U									NA							
Volatile Organics																					
1,1,1-Trichloroethane		NA					UNFI	10.000	ug/L	C	U			NA							
1,1,2,2-Tetrachloroethane		NA					UNFI	10.000	ug/L	C	U			NA							
1,1,2-Trichloroethane		NA					UNFI	10.000	ug/L	C	U			NA							
1,1-Dichloroethane		NA					UNFI	10.000	ug/L	C	U			NA							
1,1-Dichloroethene		NA					UNFI	10.000	ug/L	C	U			NA							
1,2-Dichloroethane		NA					UNFI	10.000	ug/L	C	U			NA							
1,2-Dichloroethene		NA					UNFI	10.000	ug/L	C	U			NA							
1,2-Dichloropropane		NA					UNFI	10.000	ug/L	C	U			NA							
2-Butanone		NA					UNFI	10.000	ug/L	C	U			NA							
2-Hexanone		NA					UNFI	10.000	ug/L	C	U			NA							
4-Methyl-2-pentanone		NA					UNFI	10.000	ug/L	C	U			NA							
Acetone		NA					UNFI	2.000	ug/L	C	U			NA							
Benzene		NA					UNFI	10.000	ug/L	C	U			NA							
Bromodichloromethane		NA					UNFI	10.000	ug/L	C	U			NA							
Bromoform		NA					UNFI	10.000	ug/L	C	U			NA							
Bromomethane		NA					UNFI	10.000	ug/L	C	U			NA							
Carbon Tetrachloride		NA					UNFI	10.000	ug/L	C	U			NA							
Carbon disulfide		NA					UNFI	10.000	ug/L	C	U			NA							
Chlorobenzene		NA					UNFI	10.000	ug/L	C	U			NA							
Chloroethane		NA					UNFI	10.000	ug/L	C	U			NA							
Chloroform		NA					UNFI	10.000	ug/L	C	U			NA							
Chloromethane		NA					UNFI	10.000	ug/L	C	U			NA							
Dibromochloromethane		NA					UNFI	10.000	ug/L	C	U			NA							
Ethylbenzene		NA					UNFI	10.000	ug/L	C	U			NA							
Methylene chloride		NA					UNFI	10.000	ug/L	C	U			NA							
Styrene		NA					UNFI	10.000	ug/L	C	U			NA							
Tetrachloroethene		NA					UNFI	10.000	ug/L	C	U			NA							
Toluene		NA					UNFI	10.000	ug/L	C	U			NA							
Trichloroethene		NA					UNFI	10.000	ug/L	C	U			NA							

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2042 110990		2042 110994 DUPLICATE 05/04/93		2042 110995 DUPLICATE 05/04/93	
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Volatile Organics</u>						
Vinyl Acetate		NA	UNFI	10.000 ug/L C UJ		NA
Vinyl chloride		NA	UNFI	10.000 ug/L C UJ		NA
Xylenes, Total		NA	UNFI	10.000 ug/L C U		NA
cis-1,3-Dichloropropene		NA	UNFI	10.000 ug/L C U		NA
trans-1,3-Dichloropropene		NA	UNFI	10.000 ug/L C U		NA
<u>Semivolatile Organics</u>						
1,2,4-Trichlorobenzene		NA	UNFI	10.000 ug/L C U		NA
1,2-Dichlorobenzene		NA	UNFI	10.000 ug/L C U		NA
1,3-Dichlorobenzene		NA	UNFI	10.000 ug/L C U		NA
1,4-Dichlorobenzene		NA	UNFI	10.000 ug/L C U		NA
2,4,5-Trichlorophenol		NA	UNFI	25.000 ug/L C UU		NA
2,4,6-Trichlorophenol		NA	UNFI	10.000 ug/L C UU		NA
2,4-Dichlorophenol		NA	UNFI	10.000 ug/L C UU		NA
2,4-Dimethylphenol		NA	UNFI	10.000 ug/L C UU		NA
2,4-Dinitrophenol		NA	UNFI	25.000 ug/L C R		NA
2,4-Dinitrotoluene		NA	UNFI	10.000 ug/L C UU		NA
2,6-Dinitrotoluene		NA	UNFI	10.000 ug/L C UU		NA
2-Chloronaphthalene		NA	UNFI	10.000 ug/L C UU		NA
2-Chlorophenol		NA	UNFI	10.000 ug/L C UU		NA
2-Methylnaphthalene		NA	UNFI	10.000 ug/L C UU		NA
2-Methylphenol		NA	UNFI	10.000 ug/L C UU		NA
2-Nitroaniline		NA	UNFI	25.000 ug/L C UU		NA
2-Nitrophenol		NA	UNFI	10.000 ug/L C UU		NA
3,3'-Dichlorobenzidine		NA	UNFI	10.000 ug/L C UU		NA
3-Nitroaniline		NA	UNFI	25.000 ug/L C UU		NA
4,6-Dinitro-2-methylphenol		NA	UNFI	25.000 ug/L C UU		NA
4-Bromophenyl phenyl ether		NA	UNFI	10.000 ug/L C UJ		NA
4-Chloro-3-methylphenol		NA	UNFI	10.000 ug/L C UU		NA
4-Chlorophenylphenyl ether		NA	UNFI	10.000 ug/L C UU		NA
4-Methylphenol		NA	UNFI	10.000 ug/L C UU		NA
4-Nitroaniline		NA	UNFI	10.000 ug/L C UU		NA
4-Nitrophenol		NA	UNFI	25.000 ug/L C UU		NA
Acenaphthene		NA	UNFI	10.000 ug/L C UU		NA
Acenaphthylene		NA	UNFI	10.000 ug/L C UU		NA
Anthracene		NA	UNFI	10.000 ug/L C UU		NA
Benzo(a)anthracene		NA	UNFI	10.000 ug/L C UU		NA
Benzo(a)pyrene		NA	UNFI	10.000 ug/L C UU		NA
Benzo(b)fluoranthene		NA	UNFI	10.000 ug/L C UU		NA
Benzo(g,h,i)perylene		NA	UNFI	10.000 ug/L C UU		NA
Benzo(k)fluoranthene		NA	UNFI	10.000 ug/L C UU		NA

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2042 110990	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>																
Benzoic acid	NA		UNFI	50.000	ug/L	C R							NA			
Benzyl alcohol	NA		UNFI	10.000	ug/L	C UJ							NA			
Butyl benzyl phthalate	NA		UNFI	10.000	ug/L	C U							NA			
Carbazole	NA		UNFI	10.000	ug/L	C U							NA			
Chrysene	NA		UNFI	10.000	ug/L	C U							NA			
Di-n-butyl phthalate	NA		UNFI	10.000	ug/L	C U							NA			
Di-n-octyl phthalate	NA		UNFI	10.000	ug/L	C R							NA			
Dibenzo(a,h)anthracene	NA		UNFI	10.000	ug/L	C UJ							NA			
Dibenzofuran	NA		UNFI	10.000	ug/L	C U							NA			
Diethyl phthalate	NA		UNFI	10.000	ug/L	C U							NA			
Dimethyl phthalate	NA		UNFI	10.000	ug/L	C U							NA			
Fluoranthene	NA		UNFI	10.000	ug/L	C U							NA			
Fluorene	NA		UNFI	10.000	ug/L	C U							NA			
Hexachlorobenzene	NA		UNFI	10.000	ug/L	C U							NA			
Hexachlorobutadiene	NA		UNFI	10.000	ug/L	C U							NA			
Hexachlorocyclopentadiene	NA		UNFI	10.000	ug/L	C U							NA			
Hexachloroethane	NA		UNFI	10.000	ug/L	C U							NA			
Indeno(1,2,3-cd)pyrene	NA		UNFI	10.000	ug/L	C U							NA			
Isophorone	NA		UNFI	10.000	ug/L	C U							NA			
N-Nitroso-di-n-propylamine	NA		UNFI	10.000	ug/L	C U							NA			
N-Nitrosodiphenylamine	NA		UNFI	10.000	ug/L	C U							NA			
Naphthalene	NA		UNFI	10.000	ug/L	C U							NA			
Nitrobenzene	NA		UNFI	10.000	ug/L	C U							NA			
Pentachlorophenol	NA		UNFI	25.000	ug/L	C U							NA			
Phenanthrone	NA		UNFI	10.000	ug/L	C U							NA			
Phenol	NA		UNFI	10.000	ug/L	C U							NA			
Pyrene	NA		UNFI	10.000	ug/L	C U							NA			
bis(2-Chloroethoxy)methane	NA		UNFI	10.000	ug/L	C U							NA			
bis(2-Chloroethyl)ether	NA		UNFI	10.000	ug/L	C U							NA			
bis(2-Chloroisopropyl) ether	NA		UNFI	10.000	ug/L	C U							NA			
bis(2-Ethylhexyl) phthalate	NA		UNFI	10.000	ug/L	C UJ							NA			
p-Chloroaniline	NA		UNFI	10.000	ug/L	C U							NA			
<u>Pesticide Organics/PCBs</u>																
4,4'-DDD	NA		UNFI	0.100	ug/L	C U							NA			
4,4'-DDE	NA		UNFI	0.100	ug/L	C U							NA			
4,4'-DDT	NA		UNFI	0.100	ug/L	C UJ							NA			
Aldrin	NA		UNFI	0.050	ug/L	C U							NA			
Aroclor-1016	NA		UNFI	1.000	ug/L	C U							NA			
Aroclor-1221	NA		UNFI	2.000	ug/L	C U							NA			
Aroclor-1232	NA		UNFI	1.000	ug/L	C U							NA			

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2042	2042	2042			
SAMPLE NUMBER	110990	110994	110995			
SAMPLING DATE	05/04/93	DUPLICATE 05/04/93	DUPLICATE 05/04/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
Aroclor-1242	NA	UNFI	1.000	ug/L C U		NA
Aroclor-1248	NA	UNFI	1.000	ug/L C C		NA
Aroclor-1254	NA	UNFI	1.000	ug/L C C		NA
Aroclor-1260	NA	UNFI	1.000	ug/L C C C C		NA
Dieldrin	NA	UNFI	0.100	ug/L C		NA
Endosulfan II	NA	UNFI	0.100	ug/L C C C C C		NA
Endosulfan sulfate	NA	UNFI	0.100	ug/L C C C C		NA
Endosulfan-I	NA	UNFI	0.050	ug/L C C C C		NA
Endrin	NA	UNFI	0.100	ug/L C C C C		NA
Endrin aldehyde	NA	UNFI	0.100	ug/L C C C C		NA
Endrin ketone	NA	UNFI	0.100	ug/L C C C C		NA
Heptachlor	NA	UNFI	0.050	ug/L C C C C		NA
Heptachlor epoxide	NA	UNFI	0.050	ug/L C C C C		NA
Methoxychlor	NA	UNFI	0.500	ug/L C C C C		NA
Toxaphene	NA	UNFI	5.000	ug/L C C C C		NA
alpha-BHC	NA	UNFI	0.050	ug/L C C C C		NA
alpha-Chlordane	NA	UNFI	0.050	ug/L C C C C		NA
beta-BHC	NA	UNFI	0.050	ug/L C C C C		NA
delta-BHC	NA	UNFI	0.050	ug/L C C C C		NA
gamma-BHC (Lindane)	NA	UNFI	0.050	ug/L C C C C		NA
gamma-Chlordane	NA	UNFI	0.050	ug/L C C C C		NA
<u>General Chemistry</u>						
Alkalinity	NA	UNFI	258.000	mg/L B -		NA
Ammonia	NA	UNFI	0.100	mg/L B C		NA
Chloride	NA	UNFI	18.870	mg/L B -		NA
Fluoride	NA	UNFI	0.130	mg/L B -		NA
Nitrate	NA	UNFI	1.300	mg/L B C		NA
Phenols	NA	UNFI	0.010	mg/L B C C		NA
Sulfate	NA	UNFI	135.500	mg/L B C C C		NA
Sulfide	NA	UNFI	0.500	mg/L B C C C		NA
Total Kjeldahl Nitrogen	NA	UNFI	0.100	mg/L B C C C		NA
Total Organic Carbon	NA	UNFI	1.000	mg/L B C C C		NA
Total Organic Halides	NA	UNFI	0.010	mg/L B C C C		NA
Total Organic Nitrogen	NA	UNFI	0.100	mg/L B C C C		NA
Total Phosphorous	NA	UNFI	0.020	mg/L B C C C		NA

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2935 114921				2936 114788				2936 114789 DUPLICATE 06/12/93					
SAMPLING DATE	06/13/93				06/12/93									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ		
<u>Inorganics</u>														
Aluminum	FILT	0.049	mg/L	C -	UNFI	NA	0.030	mg/L	C U	UNFI	NA	0.100	mg/L	C -
Aluminum	UNFI	0.260	mg/L	C C C -	UNFI	NA	0.059	mg/L	C U	UNFI	NA	0.059	mg/L	C U
Antimony	FILT	0.059	mg/L	C C C -	UNFI	NA	0.001	mg/L	C -	UNFI	NA	0.001	mg/L	C -
Antimony	UNFI	0.059	mg/L	C C C -	UNFI	NA	0.065	mg/L	C -	UNFI	NA	0.063	mg/L	C -
Arsenic	FILT	0.001	mg/L	C C C -	UNFI	NA	0.001	mg/L	C U	UNFI	NA	0.001	mg/L	C U
Arsenic	UNFI	0.001	mg/L	C C C -	UNFI	NA	0.003	mg/L	C U	UNFI	NA	0.003	mg/L	C U
Barium	FILT	0.070	mg/L	C C C -	UNFI	NA	109.000	mg/L	C -	UNFI	NA	109.000	mg/L	C -
Barium	UNFI	0.069	mg/L	C C C -	UNFI	NA	0.005	mg/L	C U	UNFI	NA	0.005	mg/L	C U
Beryllium	FILT	0.001	mg/L	C C C -	UNFI	NA	0.004	mg/L	C U	UNFI	NA	0.004	mg/L	C U
Beryllium	UNFI	0.001	mg/L	C C C -	UNFI	NA	0.003	mg/L	C U	UNFI	NA	0.003	mg/L	C U
Cadmium	FILT	0.003	mg/L	C C C -	UNFI	NA	0.002	mg/L	C R	UNFI	NA	0.002	mg/L	C U
Cadmium	UNFI	0.003	mg/L	C C C -	UNFI	NA	1.140	mg/L	C -	UNFI	NA	1.110	mg/L	C -
Calcium	FILT	106.000	mg/L	C C C -	UNFI	NA	0.001	mg/L	C U	UNFI	NA	0.001	mg/L	C U
Calcium	UNFI	106.000	mg/L	C C C -	UNFI	NA	27.000	mg/L	C -	UNFI	NA	26.900	mg/L	C -
Chromium	FILT	0.005	mg/L	C C C -	UNFI	NA	0.455	mg/L	C -	UNFI	NA	0.468	mg/L	C -
Chromium	UNFI	0.005	mg/L	C C C -	UNFI	NA	0.000	mg/L	C UJ	UNFI	NA	0.000	mg/L	C UJ
Cobalt	FILT	0.004	mg/L	C C C -	UNFI	NA	0.007	mg/L	C U	UNFI	NA	0.007	mg/L	C U
Cobalt	UNFI	0.004	mg/L	C C C -	UNFI	NA	0.021	mg/L	C U	UNFI	NA	0.021	mg/L	C U
Copper	FILT	0.005	mg/L	C C C -	UNFI	NA	2.980	mg/L	C U	UNFI	NA	2.980	mg/L	C U
Copper	UNFI	0.003	mg/L	C C C -	UNFI	NA	0.001	mg/L	C UJ	UNFI	NA	0.001	mg/L	C UJ
Cyanide	FILT	0.002	mg/L	C C C -	UNFI	NA	5.020	mg/L	C -	UNFI	NA	5.210	mg/L	C -
Iron	FILT	2.060	mg/L	C C C -	UNFI	NA				UNFI	NA			
Iron	UNFI	2.320	mg/L	C C C -	UNFI	NA				UNFI	NA			
Lead	FILT	0.001	mg/L	C C C -	UNFI	NA				UNFI	NA			
Lead	UNFI	0.002	mg/L	C C C -	UNFI	NA				UNFI	NA			
Magnesium	FILT	26.700	mg/L	C C C -	UNFI	NA				UNFI	NA			
Magnesium	UNFI	26.600	mg/L	C C C -	UNFI	NA				UNFI	NA			
Manganese	FILT	0.348	mg/L	C C C -	UNFI	NA				UNFI	NA			
Manganese	UNFI	0.351	mg/L	C C C -	UNFI	NA				UNFI	NA			
Mercury	FILT	0.000	mg/L	C C C -	UNFI	NA				UNFI	NA			
Mercury	UNFI	0.000	mg/L	C C C -	UNFI	NA				UNFI	NA			
Molybdenum	FILT	0.007	mg/L	C C C -	UNFI	NA				UNFI	NA			
Molybdenum	UNFI	0.007	mg/L	C C C -	UNFI	NA				UNFI	NA			
Nickel	FILT	0.021	mg/L	C C C -	UNFI	NA				UNFI	NA			
Nickel	UNFI	0.021	mg/L	C C C -	UNFI	NA				UNFI	NA			
Potassium	FILT	2.980	mg/L	C C C -	UNFI	NA				UNFI	NA			
Potassium	UNFI	2.980	mg/L	C C C -	UNFI	NA				UNFI	NA			
Selenium	FILT	0.001	mg/L	C C C -	UNFI	NA				UNFI	NA			
Selenium	UNFI	0.001	mg/L	C C C -	UNFI	NA				UNFI	NA			
Silicon	FILT	5.240	mg/L	C C C -	UNFI	NA				UNFI	NA			
Silicon	UNFI	5.710	mg/L	C C C -	UNFI	NA				UNFI	NA			
Silver	FILT	0.004	mg/L	C C -	UNFI	NA				UNFI	NA			

TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2935 114921				2936 114788				2936 114789 DUPLICATE 06/12/93					
SAMPLING DATE	06/13/93				06/12/93									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ	FLTD	RESULTS	UNITS	L VQ		
<u>Inorganics</u>														
Silver	UNFI	0.004	mg/L	C U	UNFI	0.004	mg/L	C U	UNFI	0.004	mg/L	C U		
Sodium	FILT	16.700	mg/L	C -	UNFI	NA	16.600	mg/L	C -	UNFI	NA	16.400	mg/L	C -
Sodium	UNFI	16.500	mg/L	C -	UNFI	NA	16.600	mg/L	C -	UNFI	NA	16.400	mg/L	C -
Thallium	FILT	0.001	mg/L	C C C	UNFI	0.001	mg/L	C U	UNFI	0.001	mg/L	C U		
Thallium	UNFI	0.001	mg/L	C C C	UNFI	0.001	mg/L	C U	UNFI	0.001	mg/L	C U		
Vanadium	FILT	0.002	mg/L	C C	UNFI	NA	0.002	mg/L	C U	UNFI	NA	0.002	mg/L	C U
Vanadium	UNFI	0.002	mg/L	C C	UNFI	NA	0.002	mg/L	C U	UNFI	NA	0.002	mg/L	C U
Zinc	FILT	0.034	mg/L	C C	UNFI	0.010	mg/L	C U	UNFI	0.016	mg/L	C U		
Zinc	UNFI	0.023	mg/L	C U	UNFI	0.010	mg/L	C U	UNFI	0.016	mg/L	C U		
<u>Volatile Organics</u>														
1,1,1-Trichloroethane	UNFI	10.000	ug/L	C U	UNFI	10.000	ug/L	C U	UNFI	NA				
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
1,1,2-Trichloroethane	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
1,1-Dichloroethane	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
1,1-Dichloroethene	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
1,2-Dichloroethane	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
1,2-Dichloroethene	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
1,2-Dichloropropane	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
2-Butanone	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
2-Hexanone	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
4-Methyl-2-pentanone	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Acetone	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Benzene	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Bromochloromethane	UNFI	10.000	ug/L	C C	NA				UNFI	NA				
Bromodichloromethane	NA				UNFI	10.000	ug/L	C C	UNFI	NA				
Bromoform	UNFI	10.000	ug/L	C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Bromomethane	UNFI	10.000	ug/L	C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Carbon Tetrachloride	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Carbon disulfide	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Chlorobenzene	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Chloroethane	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Chloroform	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Chloromethane	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Dibromochloromethane	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Ethylbenzene	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Methylene chloride	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Styrene	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Tetrachloroethene	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Toluene	UNFI	10.000	ug/L	C C C	UNFI	10.000	ug/L	C C	UNFI	NA				
Trichloroethene	UNFI	10.000	ug/L	C C	UNFI	10.000	ug/L	C C	UNFI	NA				

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2935	2936				2936									
SAMPLE NUMBER	114921	114788				114789									
SAMPLING DATE	06/13/93	06/12/93				DUPLICATE 06/12/93									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Vinyl chloride	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
Xylenes, Total	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U					NA
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U					NA
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2-Benzyl-4-chlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2-Chloronaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2-Chlorophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
2-Nitroaniline	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U					NA
2-Nitrophenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
3-Nitroaniline	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U					NA
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
4-Methylphenol	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
4-Nitroaniline	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
4-Nitrophenol	UNFI	25.000	ug/L	C	U	UNFI	25.000	ug/L	C	U					NA
Acenaphthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
Acenaphthylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
Anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
Benzo(a)pyrene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	U	UNFI	10.000	ug/L	C	U					NA

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2935 114921	2936 114788	2936 114789 DUPLICATE 06/12/93			
SAMPLING DATE	06/13/93	06/12/93				
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
Benzoic acid	UNFI	50.000 ug/L C U	UNFI	50.000 ug/L C U		NA
Benzyl alcohol	UNFI	10.000 ug/L C R	UNFI	10.000 ug/L C R		NA
Butyl benzyl phthalate	UNFI	2.000 ug/L C J	UNFI	2.000 ug/L C J		NA
Carbazole	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Chrysene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Di-n-butyl phthalate	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Di-n-octyl phthalate	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Dibenz(a,h)anthracene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Dibenzofuran	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Diethyl phthalate	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Dimethyl phthalate	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Fluoranthene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Fluorene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Hexachlorobenzene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Hexachlorobutadiene	UNFI	10.000 ug/L C UJ	UNFI	10.000 ug/L C UJ		NA
Hexachlorocyclopentadiene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Hexachloroethane	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Indeno(1,2,3-cd)pyrene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Isophorone	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
N-Nitroso-di-n-propylamine	UNFI	10.000 ug/L C UJ	UNFI	10.000 ug/L C UJ		NA
N-Nitrosodimethylamine	UNFI	10.000 ug/L C UJ	UNFI	10.000 ug/L C UJ		NA
N-Nitrosodiphenylamine	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Naphthalene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Nitrobenzene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Pentachlorophenol	UNFI	25.000 ug/L C UJ	UNFI	25.000 ug/L C UJ		NA
Phenanthrene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Phenol	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Pyrene	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
Tributyl phosphate	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
bis(2-Chloroethoxy)methane	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
bis(2-Chloroethyl)ether	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
bis(2-Chloroisopropyl) ether	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
bis(2-Ethylhexyl) phthalate	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
p-Chloroaniline	UNFI	10.000 ug/L C U	UNFI	10.000 ug/L C U		NA
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U		NA
4,4'-DDE	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U		NA
4,4'-DDT	UNFI	0.100 ug/L C U	UNFI	0.100 ug/L C U		NA
Aldrin	UNFI	0.050 ug/L C U	UNFI	0.050 ug/L C U		NA
Aroclor-1016	UNFI	1.000 ug/L C U	UNFI	1.000 ug/L C U		NA

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(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2935 114921				2936 114788				2936 114789 DUPLICATE 06/12/93						
SAMPLING DATE	06/13/93				06/12/93										
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>															
Aroclor-1221	UNFI	2.000	ug/L	C	U	UNFI	2.000	ug/L	C	U		NA			
Aroclor-1232	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U		NA			
Aroclor-1242	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U		NA			
Aroclor-1248	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U		NA			
Aroclor-1254	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U		NA			
Aroclor-1260	UNFI	1.000	ug/L	C	U	UNFI	1.000	ug/L	C	U		NA			
Dieldrin	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U		NA			
Endosulfan II	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U		NA			
Endosulfan sulfate	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U		NA			
Endosulfan-I	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U		NA			
Endrin	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U		NA			
Endrin aldehyde	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U		NA			
Endrin ketone	UNFI	0.100	ug/L	C	U	UNFI	0.100	ug/L	C	U		NA			
Heptachlor	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U		NA			
Heptachlor epoxide	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U		NA			
Methoxychlor	UNFI	0.500	ug/L	C	U	UNFI	0.500	ug/L	C	U		NA			
Toxaphene	UNFI	5.000	ug/L	C	U	UNFI	5.000	ug/L	C	U		NA			
alpha-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U		NA			
alpha-Chlordane	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U		NA			
beta-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U		NA			
delta-BHC	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U		NA			
gamma-BHC (Lindane)	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U		NA			
gamma-Chlordane	UNFI	0.050	ug/L	C	U	UNFI	0.050	ug/L	C	U		NA			
<u>General Chemistry</u>															
Alkalinity	UNFI	287.500	mg/L	B	-	UNFI	332.500	mg/L	B	-		NA			
Ammonia	UNFI	0.100	mg/L	B	-	UNFI	0.100	mg/L	B	-		NA			
Chloride	UNFI	23.000	mg/L	B	-	UNFI	27.300	mg/L	B	-		NA			
Fluoride	UNFI	0.160	mg/L	B	-	UNFI	0.170	mg/L	B	-		NA			
Nitrate	UNFI	0.100	mg/L	B	-	UNFI	0.100	mg/L	B	-		NA			
Phenols	UNFI	0.010	mg/L	B	-	UNFI	0.010	mg/L	B	-		NA			
Sulfate	UNFI	118.900	mg/L	B	-	UNFI	120.000	mg/L	B	-		NA			
Sulfide	UNFI	10.750	mg/L	B	-	UNFI	1.550	mg/L	B	-		NA			
Total Kjeldahl Nitrogen	UNFI	0.100	mg/L	C	U	UNFI	0.100	mg/L	B	-		NA			
Total Organic Carbon	UNFI	1.000	mg/L	C	U	UNFI	1.000	mg/L	B	-		NA			
Total Organic Halides	UNFI	0.010	mg/L	C	U	UNFI	0.010	mg/L	B	-		NA			
Total Organic Nitrogen	UNFI	0.100	mg/L	B	-	UNFI	0.100	mg/L	B	-		NA			
Total Phosphorous	UNFI	0.050	mg/L	B	-	UNFI	0.020	mg/L	B	-		NA			

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	2936 114917 DUPLICATE	2936 114918 DUPLICATE	2939 114924			
SAMPLING DATE	06/12/93	06/12/93	06/13/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Inorganics</u>						
Aluminum	UNFI	NA	UNFI	NA	FILT	0.034
Aluminum		0.030 mg/L C U		0.030 mg/L C U		mg/L C -
Antimony	UNFI	NA	UNFI	NA	UNFI	0.046 mg/L C -
Antimony		0.059 mg/L C U		0.059 mg/L C U		mg/L C C
Arsenic	UNFI	NA	UNFI	NA	UNFI	0.059 mg/L C C
Arsenic		0.001 mg/L C -		0.001 mg/L C -		mg/L C C
Barium	UNFI	NA	UNFI	NA	UNFI	0.001 mg/L C C
Barium		0.059 mg/L C -		0.059 mg/L C -		mg/L C C
Beryllium	UNFI	NA	UNFI	NA	UNFI	0.063 mg/L C -
Beryllium		0.000 mg/L C U		0.000 mg/L C U		mg/L C C
Cadmium	UNFI	NA	UNFI	NA	UNFI	0.003 mg/L C C
Cadmium		0.003 mg/L C U		0.003 mg/L C U		mg/L C C
Calcium	UNFI	NA	UNFI	NA	UNFI	0.003 mg/L C C
Calcium		104.000 mg/L C -		105.000 mg/L C -		mg/L C C
Chromium	UNFI	NA	UNFI	NA	UNFI	111.000 mg/L C C
Chromium		0.005 mg/L C U		0.005 mg/L C U		mg/L C C
Cobalt	UNFI	NA	UNFI	NA	UNFI	0.005 mg/L C C
Cobalt		0.004 mg/L C U		0.004 mg/L C U		mg/L C C
Copper	UNFI	NA	UNFI	NA	UNFI	0.004 mg/L C C
Copper		0.003 mg/L C U		0.003 mg/L C U		mg/L C C
Cyanide	UNFI	NA	UNFI	NA	UNFI	0.003 mg/L C C
Iron	UNFI	NA	UNFI	NA	UNFI	0.002 mg/L C C
Iron		1.180 mg/L C -		1.120 mg/L C -		mg/L C C
Lead	UNFI	NA	UNFI	NA	UNFI	1.030 mg/L C C
Lead		0.001 mg/L C U		0.001 mg/L C U		mg/L C C
Magnesium	UNFI	NA	UNFI	NA	UNFI	0.001 mg/L C C
Magnesium		25.400 mg/L C -		25.400 mg/L C -		mg/L C C
Manganese	UNFI	NA	UNFI	NA	UNFI	26.300 mg/L C C
Manganese		0.420 mg/L C -		0.423 mg/L C -		mg/L C C
Mercury	UNFI	NA	UNFI	NA	UNFI	25.700 mg/L C C
Mercury		0.000 mg/L C UJ		0.000 mg/L C UJ		mg/L C C
Molybdenum	UNFI	NA	UNFI	NA	UNFI	0.332 mg/L C C
Molybdenum		0.007 mg/L C U		0.007 mg/L C U		mg/L C C
Nickel	UNFI	NA	UNFI	NA	UNFI	0.330 mg/L C C
Nickel		0.021 mg/L C U		0.021 mg/L C U		mg/L C C
Potassium	UNFI	NA	UNFI	NA	UNFI	2.980 mg/L C C
Potassium		5.460 mg/L C J		2.980 mg/L C UJ		mg/L C C
Selenium	UNFI	NA	UNFI	NA	UNFI	2.980 mg/L C C
Selenium		0.001 mg/L C UJ		0.001 mg/L C UJ		mg/L C C
Silicon	UNFI	NA	UNFI	NA	UNFI	0.001 mg/L C C
Silicon		4.890 mg/L C -		4.830 mg/L C -		mg/L C C
Silver	UNFI	NA	UNFI	NA	UNFI	5.030 mg/L C C
					FILT	0.004 mg/L C C

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2936	2936	2939								
SAMPLE NUMBER	114917	114918	114924								
SAMPLING DATE	DUPLICATE 06/12/93	DUPLICATE 06/12/93	06/13/93								
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ	FLTD	RESULTS	UNITS L VQ		
<u>Inorganics</u>											
Silver	UNFI	0.004	mg/L C U	UNFI	0.004	mg/L C U	UNFI	0.004	mg/L C U		
Sodium	NA			UNFI	NA		FILT	17.900	mg/L C C		
Sodium	UNFI	14.800	mg/L C -	UNFI	15.200	mg/L C -	UNFI	17.100	mg/L C C		
Thallium	NA			UNFI	NA		FILT	0.001	mg/L C C		
Thallium	UNFI	0.001	mg/L C UJ	UNFI	0.001	mg/L C UJ	UNFI	0.001	mg/L C C		
Vanadium	NA			UNFI	NA		FILT	0.002	mg/L C C		
Vanadium	UNFI	0.002	mg/L C U	UNFI	0.002	mg/L C U	UNFI	0.002	mg/L C C		
Zinc	NA			UNFI	NA		FILT	0.012	mg/L C C		
Zinc	UNFI	0.028	mg/L C U	UNFI	0.011	mg/L C U	UNFI	0.010	mg/L C U		
<u>Volatile Organics</u>											
1,1,1-Trichloroethane	UNFI	10.000	ug/L C U	NA			UNFI	10.000	ug/L C C		
1,1,2,2-Tetrachloroethane	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
1,1,2-Trichloroethane	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
1,1-Dichloroethane	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
1,1-Dichloroethene	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
1,2-Dichloroethane	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
1,2-Dichloroethene	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
1,2-Dichloropropane	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
2-Butanone	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
2-Hexanone	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
4-Methyl-2-pentanone	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Acetone	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Benzene	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Bromodichloromethane	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Bromoform	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Bromomethane	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Carbon Tetrachloride	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Carbon disulfide	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Chlorobenzene	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Chloroethane	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Chloroform	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Chloromethane	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Dibromochloromethane	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Ethylbenzene	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Methylene chloride	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Styrene	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Tetrachloroethene	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Toluene	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Trichloroethene	UNFI	10.000	ug/L C C	NA			UNFI	10.000	ug/L C C		
Vinyl Acetate	UNFI	10.000	ug/L C C	NA			NA				

TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER		2936		2936		2939									
SAMPLE NUMBER		114917		114918		114924									
SAMPLING DATE		DUPLICATE		DUPLICATE		06/13/93									
CHEMICAL PARAMETERS	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ	FLTD	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>															
Vinyl chloride	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Xylenes, Total	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
cis-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
trans-1,3-Dichloropropene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
<u>Semivolatile Organics</u>															
1,2,4-Trichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,2-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,3-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
1,4-Dichlorobenzene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4,5-Trichlorophenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
2,4,6-Trichlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dichlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dimethylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,4-Dinitrophenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
2,4-Dinitrotoluene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2,6-Dinitrotoluene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Benzyl-4-chlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Chloronaphthalene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Chlorophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Methylnaphthalene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
2-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
2-Nitrophenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
3,3'-Dichlorobenzidine	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
3-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4,6-Dinitro-2-methylphenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4-Bromophenyl phenyl ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Chloro-3-methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Chlorophenylphenyl ether	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Methylphenol	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
4-Nitroaniline	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
4-Nitrophenol	UNFI	25.000	ug/L	C	U		NA				UNFI	25.000	ug/L	C	U
Acenaphthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Acenaphthylene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(a)anthracene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(a)pyrene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(b)fluoranthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(g,h,i)perylene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U
Benzo(k)fluoranthene	UNFI	10.000	ug/L	C	U		NA				UNFI	10.000	ug/L	C	U

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TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2936	2936	2939			
SAMPLE NUMBER	114917	114918	114924			
DUPPLICATE		DUPPLICATE				
SAMPLING DATE	06/12/93	06/12/93	06/13/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>						
Benzoic acid	UNFI	50.000 ug/L C UJ	NA	UNFI	50.000 ug/L C U	
Benzyl alcohol	UNFI	10.000 ug/L C UJ	NA	UNFI	10.000 ug/L C U	
Butyl benzyl phthalate	UNFI	1.000 ug/L C UJ	NA	UNFI	1.000 ug/L C U	
Carbazole	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Chrysene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Di-n-butyl phthalate	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Di-n-octyl phthalate	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Dibenzo(a,h)anthracene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Dibenzofuran	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Diethyl phthalate	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Dimethyl phthalate	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Fluoranthene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Fluorene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Hexachlorobenzene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Hexachlorobutadiene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Hexachlorocyclopentadiene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Hexachloroethane	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Indeno(1,2,3-cd)pyrene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Isophorone	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
N-Nitroso-di-n-propylamine	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
N-Nitrosodimethylamine	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Naphthalene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Nitrobenzene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Pentachlorophenol	UNFI	25.000 ug/L C UJ	NA	UNFI	25.000 ug/L C U	
Phenanthrene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Phenol	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Pyrene	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
Tributyl phosphate	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
bis(2-Chloroethoxy)methane	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
bis(2-Chloroethyl)ether	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
bis(2-Chloroisopropyl) ether	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
bis(2-Ethylhexyl) phthalate	UNFI	10.000 ug/L C UU	NA	UNFI	10.000 ug/L C U	
p-Chloroaniline	UNFI	10.000 ug/L C U	NA	UNFI	10.000 ug/L C U	
<u>Pesticide Organics/PCBs</u>						
4,4'-DDD	UNFI	0.100 ug/L C U	NA	UNFI	0.100 ug/L C U	
4,4'-DDE	UNFI	0.100 ug/L C UU	NA	UNFI	0.100 ug/L C U	
4,4'-DDT	UNFI	0.100 ug/L C UU	NA	UNFI	0.100 ug/L C U	
Aldrin	UNFI	0.050 ug/L C UU	NA	UNFI	0.050 ug/L C U	
Aroclor-1016	UNFI	1.000 ug/L C U	NA	UNFI	1.000 ug/L C U	

TABLE D-11A
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	2936	2936	2939			
SAMPLE NUMBER	114917	114918	114924			
SAMPLING DATE	DUPLICATE 06/12/93	DUPLICATE 06/12/93	06/13/93			
CHEMICAL PARAMETERS	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ	FLTD	RESULTS UNITS L VQ
<u>Pesticide Organics/PCBs</u>						
Aroclor-1221	UNFI	2.000 ug/L C U		NA		UNFI 2.000 ug/L C U
Aroclor-1232	UNFI	1.000 ug/L C U		NA		UNFI 1.000 ug/L C U
Aroclor-1242	UNFI	1.000 ug/L C U		NA		UNFI 1.000 ug/L C U
Aroclor-1248	UNFI	1.000 ug/L C U		NA		UNFI 1.000 ug/L C U
Aroclor-1254	UNFI	1.000 ug/L C U		NA		UNFI 1.000 ug/L C U
Aroclor-1260	UNFI	1.000 ug/L C U		NA		UNFI 1.000 ug/L C U
Dieldrin	UNFI	0.100 ug/L C U		NA		UNFI 0.100 ug/L C U
Endosulfan II	UNFI	0.100 ug/L C U		NA		UNFI 0.100 ug/L C U
Endosulfan sulfate	UNFI	0.100 ug/L C U		NA		UNFI 0.100 ug/L C U
Endosulfan-I	UNFI	0.050 ug/L C U		NA		UNFI 0.050 ug/L C U
Endrin	UNFI	0.100 ug/L C U		NA		UNFI 0.100 ug/L C U
Endrin aldehyde	UNFI	0.100 ug/L C U		NA		UNFI 0.100 ug/L C U
Endrin ketone	UNFI	0.100 ug/L C U		NA		UNFI 0.100 ug/L C U
Heptachlor	UNFI	0.050 ug/L C U		NA		UNFI 0.050 ug/L C U
Heptachlor epoxide	UNFI	0.050 ug/L C U		NA		UNFI 0.050 ug/L C U
Methoxychlor	UNFI	0.500 ug/L C U		NA		UNFI 0.500 ug/L C U
Toxaphene	UNFI	5.000 ug/L C U		NA		UNFI 5.000 ug/L C U
alpha-BHC	UNFI	0.050 ug/L C U		NA		UNFI 0.050 ug/L C U
alpha-Chlordane	UNFI	0.050 ug/L C U		NA		UNFI 0.050 ug/L C U
beta-BHC	UNFI	0.050 ug/L C U		NA		UNFI 0.050 ug/L C U
delta-BHC	UNFI	0.050 ug/L C U		NA		UNFI 0.050 ug/L C U
gamma-BHC (Lindane)	UNFI	0.050 ug/L C U		NA		UNFI 0.050 ug/L C U
gamma-Chlordane	UNFI	0.050 ug/L C U		NA		UNFI 0.050 ug/L C U
<u>General Chemistry</u>						
Alkalinity	UNFI	265.000 mg/L B C		NA		UNFI 278.500 mg/L B C
Ammonia	UNFI	0.100 mg/L B C		NA		UNFI 0.100 mg/L B C
Chloride	UNFI	28.150 mg/L B C		NA		UNFI 26.860 mg/L B C
Fluoride	UNFI	0.160 mg/L B C		NA		UNFI 0.160 mg/L B C
Nitrate	UNFI	0.100 mg/L B R U		NA		UNFI 0.890 mg/L B B
Phenols	UNFI	0.010 mg/L B R U		NA		UNFI 0.010 mg/L B B
Phosphorus	UNFI	0.050 mg/L B C		NA		NA
Sulfate	UNFI	116.800 mg/L B C		NA		UNFI 106.800 mg/L B C
Sulfide	UNFI	0.500 mg/L B C		NA		UNFI 0.510 mg/L B C
Total Kjeldahl Nitrogen	UNFI	0.100 mg/L B C		NA		UNFI 0.100 mg/L B C
Total Organic Carbon	UNFI	1.000 mg/L B C		NA		UNFI 1.000 mg/L B C
Total Organic Halides	UNFI	0.010 mg/L B C		NA		UNFI 0.010 mg/L B C
Total Organic Nitrogen	UNFI	0.100 mg/L B C		NA		UNFI 0.100 mg/L B C
Total Phosphorous		NA		NA		UNFI 0.040 mg/L B C

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TABLE D-11B
LIME SLUDGE PONDS
TENTATIVELY IDENTIFIED COMPOUNDS
WATER

Sample Number	Sample Location	Media	Parameter	Result	Units
110888	TRIP BLANK	TB	2-hexenal, (e)-	7	ug/L
110989	2042	GW	2-piperidinecarboxylic acid	6	ug/L
114580	RINSATE	R	1-propene, 3,3,3-trichloro-	2	ug/L
114580	RINSATE	R	2-hexene, 4,4,5-trimethyl	3	ug/L
114595	DUPLICATE	SW	azacyclotridecan-2-one	22	ug/L
114620	1934	GW	benzothiazole	120	ug/L
114620	1934	GW	2(3)-benzothiazolethione	93	ug/L
114725	RINSATE	R	1,2-benzisothiazole	2	ug/L
114725	RINSATE	R	formamide, N,N-dibutyl-	2	ug/L
114725	RINSATE	R	phenol, 4-(2,2,4-trimethylpe	2	ug/L
114725	RINSATE	R	pentadecane	2	ug/L
114725	RINSATE	R	pentadecane	3	ug/L
114725	RINSATE	R	heptadecane, 2,6-dimethyl-	3	ug/L
114811	RINSATE	R	1,2-benzisothiazole	3	ug/L
114811	RINSATE	R	formamide, N,N-dibutyl-	2	ug/L
114811	RINSATE	R	phenol, 4-(2,2,3,3-tetrameth	10	ug/L
114829	RINSATE	R	cyclohexanone, 2-hydroxy-	4	ug/L
114829	RINSATE	R	1,3-doxane, 4-phenyl-	4	ug/L
114829	RINSATE	R	phenol, 4-(2,2,3,3-tetrameth	3	ug/L
114784	1940	GW	cyclohexanone, 2-hydroxy-	35	ug/L
114924	2939	GW	heptanal	2	ug/L

TB - trip blank

R - rinsate

SW - surface water

GW - groundwater

TABLE D-12
LIME SLUDGE PONDS
RI/FS TCLP RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER SAMPLING DATE	1716 067007 1.5-2 05/14/91	RESULTS UNITS L VQ	1717 067003 1.5-2 05/14/91	RESULTS UNITS L VQ
<u>Inorganics</u>				
Arsenic	0.499	mg/L C -	0.380	mg/L C -
Barium	0.513	mg/L C -	0.639	mg/L C -
Cadmium	0.044	mg/L C -	0.035	mg/L C -
Chromium	0.111	mg/L C -	0.092	mg/L C -
Lead	0.276	mg/L C U	0.204	mg/L C -
Mercury	0.000	mg/L C U	0.000	mg/L C U
Selenium	0.475	mg/L C -	0.400	mg/L C U
Silver	0.154	mg/L C -	0.145	mg/L C -
<u>Volatile Organics</u>				
1,1,1-Trichloroethane	5.000	ug/L C U	NA	
1,1,2,2-Tetrachloroethane	5.000	ug/L C U	NA	
1,1,2-Trichloroethane	5.000	ug/L C U	NA	
1,1-Dichloroethane	5.000	ug/L C U	NA	
1,1-Dichloroethene	5.000	ug/L C U	11.000	ug/L C -
1,2-Dichloroethane	5.000	ug/L C U	5.000	ug/L C U
1,2-Dichloroethene	5.000	ug/L C U	NA	
1,2-Dichloropropane	5.000	ug/L C U	NA	
2-Butanone	10.000	ug/L C U	6.000	ug/L C J
2-Hexanone	10.000	ug/L C U	NA	
4-Methyl-2-pentanone	10.000	ug/L C U	NA	
Acetone	1.000	ug/L C -	NA	
Benzene	5.000	ug/L C U	5.000	ug/L C U
Bromodichloromethane	2.000	ug/L C U	NA	
Bromoform	5.000	ug/L C U	NA	
Bromomethane	10.000	ug/L C U	NA	
Carbon Tetrachloride	5.000	ug/L C U	5.000	ug/L C U
Carbon disulfide	5.000	ug/L C U	NA	
Chlorobenzene	5.000	ug/L C U	5.000	ug/L C U
Chloroethane	5.000	ug/L C U	NA	
Chloroform	10.000	ug/L C U	5.000	ug/L C U
Chloromethane	5.000	ug/L C U	5.000	ug/L C U
Dibromochloromethane	10.000	ug/L C U	NA	
Ethylbenzene	5.000	ug/L C U	NA	
Methylene chloride	5.000	ug/L C U	NA	
Tetrachloroethene	5.000	ug/L C U	2.000	ug/L C J
Toluene	1.000	ug/L C U	NA	
Trichloroethene	5.000	ug/L C U	5.000	ug/L C U
Vinyl Acetate	10.000	ug/L C U	NA	
Vinyl chloride	10.000	ug/L C U	10.000	ug/L C U
Xylenes, Total	5.000	ug/L C U	NA	

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TABLE D-12
(Continued)

PHASE I - CHEMICAL PARAMETERS

BORING NUMBER SAMPLE NUMBER	1716 067007 1.5-2 05/14/91				1717 067003 1.5-2 05/14/91			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>								
cis-1,3-Dichloropropene	5.000	ug/L	C	U	NA			
trans-1,3-Dichloropropene	5.000	ug/L	C	U	NA			
<u>Herbicide Organics</u>								
2,4,5-TP (Silvex)	1.800	ug/L	C	U	1.800	ug/L	C	U
2,4-D	12.000	ug/L	C	U	12.000	ug/L	C	U
<u>Pesticide Organics/PCBs</u>								
Endrin	0.100	ug/L	C	U	0.100	ug/L	C	U
Heptachlor	0.050	ug/L	C	U	0.050	ug/L	C	U
Heptachlor epoxide	0.050	ug/L	C	U	0.050	ug/L	C	U
Methoxychlor	0.500	ug/L	C	U	0.500	ug/L	C	U
Toxaphene	1.000	ug/L	C	U	1.000	ug/L	C	U
alpha-Chlordane	0.500	ug/L	C	U	0.500	ug/L	C	U
gamma-BHC (Lindane)	0.050	ug/L	C	U	0.050	ug/L	C	U
gamma-Chlordane	0.500	ug/L	C	U	0.500	ug/L	C	U

D-12-2

0922

TABLE D-12
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1956				1957				1958			
SAMPLE NUMBER	114858				114836				114822			
SAMPLING DATE	0-4 06/08/93				0.5-2 06/07/93				0.5-2.5 06/06/93			
CHEMICAL PARAMETERS	RESULTS UNITS L VQ				RESULTS UNITS L VQ				RESULTS UNITS L VQ			
<u>Inorganics</u>												
Arsenic	0.040	mg/L	D	UJ	0.040	mg/L	C	UJ	0.040	mg/L	C	UJ
Barium	0.670	mg/L	D	-	0.800	mg/L	C	-	0.390	mg/L	C	-
Cadmium	0.005	mg/L	D	-	0.005	mg/L	C	-	0.005	mg/L	C	-
Chromium	0.020	mg/L	D	UJ	0.020	mg/L	C	UJ	0.020	mg/L	C	UJ
Lead	0.040	mg/L	D	UJ	0.040	mg/L	C	UJ	0.040	mg/L	C	UJ
Mercury	0.000	mg/L	D	UJ	0.000	mg/L	C	UJ	0.000	mg/L	C	UJ
Selenium	0.060	mg/L	D	UJ	0.060	mg/L	C	UJ	0.060	mg/L	C	UJ
Silver	0.005	mg/L	D	U	0.005	mg/L	C	U	0.005	mg/L	C	U
<u>Volatile Organics</u>												
1,1-Dichloroethane	NA	ug/L	D	U	NA	ug/L	C	U	25.000	ug/L	C	U
1,1-Dichloroethene	25.000	ug/L	D	U	25.000	ug/L	C	U	25.000	ug/L	C	U
1,2-Dichloroethane	25.000	ug/L	D	U	50.000	ug/L	C	U	50.000	ug/L	C	U
2-Butanone	50.000	ug/L	D	U	25.000	ug/L	C	U	25.000	ug/L	C	U
Benzene	25.000	ug/L	D	U	25.000	ug/L	C	U	25.000	ug/L	C	U
Carbon Tetrachloride	25.000	ug/L	D	U	25.000	ug/L	C	U	25.000	ug/L	C	U
Chlorobenzene	25.000	ug/L	D	U	25.000	ug/L	C	U	25.000	ug/L	C	U
Chloroform	25.000	ug/L	D	U	25.000	ug/L	C	U	25.000	ug/L	C	U
Pyridine	400.000	ug/L	D	U	400.000	ug/L	C	U	400.000	ug/L	C	U
Tetrachloroethene	25.000	ug/L	D	U	25.000	ug/L	C	U	25.000	ug/L	C	U
Trichloroethene	25.000	ug/L	D	U	25.000	ug/L	C	U	25.000	ug/L	C	U
Vinyl chloride	50.000	ug/L	D	U	50.000	ug/L	C	U	50.000	ug/L	C	U
<u>Semivolatile Organics</u>												
1,4-Dichlorobenzene	40.000	ug/L	D	U	40.000	ug/L	C	U	40.000	ug/L	C	U
2,4,5-Trichlorophenol	200.000	ug/L	D	U	200.000	ug/L	C	U	200.000	ug/L	C	U
2,4,6-Trichlorophenol	40.000	ug/L	D	U	40.000	ug/L	C	U	40.000	ug/L	C	U
2,4-Dinitrotoluene	40.000	ug/L	D	U	40.000	ug/L	C	U	40.000	ug/L	C	U
Hexachlorobenzene	40.000	ug/L	D	U	40.000	ug/L	C	U	40.000	ug/L	C	U
Hexachlorobutadiene	40.000	ug/L	D	U	40.000	ug/L	C	U	40.000	ug/L	C	U
Hexachloroethane	40.000	ug/L	D	U	40.000	ug/L	C	U	40.000	ug/L	C	U
Nitrobenzene	40.000	ug/L	D	U	40.000	ug/L	C	U	40.000	ug/L	C	U
Pentachlorophenol	200.000	ug/L	D	U	200.000	ug/L	C	U	200.000	ug/L	C	U
Total Methylphenol	40.000	ug/L	D	U	40.000	ug/L	C	U	40.000	ug/L	C	U
<u>Herbicide Organics</u>												
2,4,5-TP (Silvex)	200.000	ug/L	D	U	200.000	ug/L	C	U	200.000	ug/L	C	U
2,4-D	400.000	ug/L	D	U	400.000	ug/L	C	U	400.000	ug/L	C	U
<u>Pesticide Organics/PCBs</u>												
Chlordane	6.000	ug/L	D	U	6.000	ug/L	C	U	6.000	ug/L	C	U

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TABLE D-12
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1956	1957	1958
SAMPLE NUMBER	114858	114836	114822
SAMPLING DATE	0-4 06/08/93	0.5-2 06/07/93	0.5-2.5 06/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Pesticide Organics/PCBs</u>			
Endrin	4.000	ug/L	D U
Heptachlor	1.000	ug/L	D D
Heptachlor epoxide	1.000	ug/L	D D
Methoxychlor	80.000	ug/L	D D
Toxaphene	100.000	ug/L	D D
gamma-BHC (Lindane)	8.000	ug/L	D D
	4.000	ug/L	C U
	1.000	ug/L	C C
	1.000	ug/L	C C
	80.000	ug/L	C C
	100.000	ug/L	C C
	8.000	ug/L	C C
	4.000	ug/L	C U
	1.000	ug/L	C C
	1.000	ug/L	C C
	80.000	ug/L	C C
	100.000	ug/L	C C
	8.000	ug/L	C C

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TABLE D-12
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1959				1960				1961			
SAMPLE NUMBER	114813				114733				114746			
SAMPLING DATE	3-5 06/05/93				2-5-5 05/27/93				2-4 06/01/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Arsenic	0.040	mg/L	C	UJ	0.050	mg/L	C	UJ	0.040	mg/L	C	U
Barium	0.400	mg/L	C	U	0.256	mg/L	C	U	0.350	mg/L	C	U
Cadmium	0.005	mg/L	C	U	0.005	mg/L	C	U	0.019	mg/L	C	U
Chromium	0.010	mg/L	C	U	0.010	mg/L	C	U	0.110	mg/L	C	U
Lead	0.040	mg/L	C	U	0.040	mg/L	C	U	0.050	mg/L	C	U
Mercury	0.000	mg/L	C	U	0.000	mg/L	C	U	0.001	mg/L	C	U
Selenium	0.060	mg/L	C	U	0.080	mg/L	C	U	0.060	mg/L	C	U
Silver	0.005	mg/L	C	U	0.010	mg/L	C	U	0.012	mg/L	C	U
<u>Volatile Organics</u>												
1,1-Dichloroethene	25.000	ug/L	C	U	5.000	ug/L	C	U	25.000	ug/L	C	U
1,2-Dichloroethane	25.000	ug/L	C	U	5.000	ug/L	C	U	25.000	ug/L	C	U
2-Butanone	50.000	ug/L	C	U	10.000	ug/L	C	U	31.000	ug/L	C	U
Benzene	25.000	ug/L	C	U	5.000	ug/L	C	U	25.000	ug/L	C	U
Carbon Tetrachloride	25.000	ug/L	C	U	5.000	ug/L	C	U	25.000	ug/L	C	U
Chlorobenzene	25.000	ug/L	C	U	5.000	ug/L	C	U	25.000	ug/L	C	U
Chloroform	25.000	ug/L	C	U	5.000	ug/L	C	U	25.000	ug/L	C	U
Pyridine	400.000	ug/L	C	U	200.000	ug/L	C	U	400.000	ug/L	C	U
Tetrachloroethene	25.000	ug/L	C	U	5.000	ug/L	C	U	25.000	ug/L	C	U
Trichloroethene	25.000	ug/L	C	U	5.000	ug/L	C	U	25.000	ug/L	C	U
Vinyl chloride	50.000	ug/L	C	U	10.000	ug/L	C	U	50.000	ug/L	C	U
<u>Semivolatile Organics</u>												
1,4-Dichlorobenzene	40.000	ug/L	C	U	20.000	ug/L	C	U	40.000	ug/L	C	U
2,4,5-Trichlorophenol	200.000	ug/L	C	U	100.000	ug/L	C	U	200.000	ug/L	C	U
2,4,6-Trichlorophenol	40.000	ug/L	C	U	20.000	ug/L	C	U	40.000	ug/L	C	U
2,4-Dinitrotoluene	40.000	ug/L	C	U	20.000	ug/L	C	U	40.000	ug/L	C	U
Hexachlorobenzene	40.000	ug/L	C	U	20.000	ug/L	C	U	40.000	ug/L	C	U
Hexachlorobutadiene	40.000	ug/L	C	U	20.000	ug/L	C	U	40.000	ug/L	C	U
Hexachloroethane	40.000	ug/L	C	U	20.000	ug/L	C	U	40.000	ug/L	C	U
Nitrobenzene	40.000	ug/L	C	U	20.000	ug/L	C	U	40.000	ug/L	C	U
Pentachlorophenol	200.000	ug/L	C	U	100.000	ug/L	C	U	200.000	ug/L	C	U
Total Methylphenol	40.000	ug/L	C	U	20.000	ug/L	C	U	40.000	ug/L	C	U
<u>Herbicide Organics</u>												
2,4,5-TP (Silvex)	200.000	ug/L	C	U	1.800	ug/L	C	UJ	200.000	ug/L	C	U
2,4-D	400.000	ug/L	C	U	10.000	ug/L	C	UJ	400.000	ug/L	C	U
<u>Pesticide Organics/PCBs</u>												
Chlordane	6.000	ug/L	C	U	NA				6.000	ug/L	C	U

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TABLE D-12
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1959	1960	1961
SAMPLE NUMBER	114813	114733	114746
SAMPLING DATE	3-5 06/05/93	2.5-5 05/27/93	2-4 06/01/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Pesticide Organics/PCBs</u>			
Endrin	4.000	ug/L	C U
Heptachlor	1.000	ug/L	C UU
Heptachlor epoxide	1.000	ug/L	C UU
Methoxychlor	80.000	ug/L	C UU
Toxaphene	100.000	ug/L	C UU
alpha-Chlordane	NA		
gamma-BHC (Lindane)	8.000	ug/L	C U
gamma-Chlordane	NA		
	0.100	ug/L	C U
	0.050	ug/L	C UU
	0.050	ug/L	C UU
	0.500	ug/L	C UU
	1.000	ug/L	C UU
	0.500	ug/L	C UU
	0.050	ug/L	C UU
	0.500	ug/L	C U
	NA		
	4.000	ug/L	C U
	1.000	ug/L	C UU
	1.000	ug/L	C UU
	80.000	ug/L	C UU
	100.000	ug/L	C UU
	NA		
	8.000	ug/L	C U
	NA		

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TABLE D-12
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1963		1962	
SAMPLE NUMBER	114763		114609	
SAMPLING DATE	2-4 06/03/93		2.5-4.5 05/26/93	
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Inorganics</u>				
Arsenic	0.040	mg/L	C U	
Barium	0.280	mg/L	C	
Cadmium	0.005	mg/L	C	
Chromium	0.010	mg/L	C	
Lead	0.040	mg/L	C	
Mercury	0.001	mg/L	C	
Selenium	0.060	mg/L	C	
Silver	0.005	mg/L	C	
<u>Volatile Organics</u>				
1,1-Dichloroethene	25.000	ug/L	C U	
1,2-Dichloroethane	25.000	ug/L	C U	
2-Butanone	27.000	ug/L	C	
Benzene	25.000	ug/L	C	
Carbon Tetrachloride	25.000	ug/L	C	
Chlorobenzene	25.000	ug/L	C	
Chloroform	25.000	ug/L	C	
Pyridine	400.000	ug/L	C	
Tetrachloroethene	25.000	ug/L	C	
Trichloroethene	25.000	ug/L	C	
Vinyl chloride	50.000	ug/L	C	
<u>Semivolatile Organics</u>				
1,4-Dichlorobenzene	40.000	ug/L	C U	
2,4,5-Trichlorophenol	200.000	ug/L	C U	
2,4,6-Trichlorophenol	40.000	ug/L	C	
2,4-Dinitrotoluene	40.000	ug/L	C	
Hexachlorobenzene	40.000	ug/L	C	
Hexachlorobutadiene	40.000	ug/L	C	
Hexachloroethane	40.000	ug/L	C	
Nitrobenzene	40.000	ug/L	C	
Pentachlorophenol	200.000	ug/L	C	
Total Methylphenol	40.000	ug/L	C	
<u>Herbicide Organics</u>				
2,4,5-TP (Silvex)	200.000	ug/L	C U	
2,4-D	400.000	ug/L	C U	
<u>Pesticide Organics/PCBs</u>				
Chlordane	6.000	ug/L	C U	NA

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FEMP-OU02-4 DRAFT
February 18, 1994
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TABLE D-12
(Continued)

PHASE II - CHEMICAL PARAMETERS

BORING NUMBER	1963				1962			
SAMPLE NUMBER	114763				114609			
SAMPLING DATE	2-4 06/03/93				2.5-4.5 05/26/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Pesticide Organics/PCBs</u>								
Endrin	4.000	ug/L	C	U	0.100	ug/L	C	U
Heptachlor	1.000	ug/L	C	U	0.050	ug/L	C	U
Heptachlor epoxide	1.000	ug/L	C	U	0.050	ug/L	C	U
Methoxychlor	80.000	ug/L	C	U	0.500	ug/L	C	U
Toxaphene	100.000	ug/L	C	U	1.000	ug/L	C	U
alpha-Chlordane	NA				0.500	ug/L	C	U
gamma-BHC (Lindane)	8.000	ug/L	C	U	0.050	ug/L	C	U
gamma-Chlordane	NA				0.500	ug/L	C	U

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FEMP-OOU024 DRAFT
February 18, 1994

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TABLE D-13

LIME SLUDGE PONDS
CIS RCRA HAZARDOUS CHARACTERISTICS AND
EP-TOXICITY RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

RCRA HAZARDOUS CHARACTERISTICS				
A review of the RCRA parameters measured showed that all of the borehole samples were within the established limits for ignitability, corrosivity, and reactivity. The EP-TOX metals from each of the six boreholes in the North and South Lime Sludge Ponds were below the maximum allowable concentration.				

EP-TOXICITY RESULTS				
Borehole Number	FEMP ID#	Parameter	Concentration (ug/L)	Qualifier ^a
47-01	FMP-PS-47-001	Selenium, EP Leachate	192.00	-
47-02	FMP-PS-47-002	Selenium, EP Leachate	293.00	-
47-03	FMP-PS-47-013	Mercury, EP Leachate Selenium, EP Leachate	0.23 187.00	-
48-01	FMP-PS-48-001	Barium, EP Leachate	1054.00	-
48-02	FMP-PS-48-014	Barium, EP Leachate Cadmium, EP Leachate Lead, EP Leachate	2091.00 163.00 647.00	-

^aLaboratory qualifier, no data validation was performed.

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TABLE D-14
LIME SLUDGE PONDS
RI/FS QUALITY CONTROL SAMPLES
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

PHASE I - CHEMICAL PARAMETERS

QC TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE	TRIP/FIELD BLANK		
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>			
1,1,1,2-Tetrachloroethane	0.010	mg/L	4 U
1,1,1-Trichloroethane	0.005	mg/L	4 U
1,1,2,2-Tetrachloroethane	0.005	mg/L	4 U
1,1,2-Trichloroethane	0.005	mg/L	4 U
1,1-Dichloroethane	0.005	mg/L	4 U
1,1-Dichloroethene	0.005	mg/L	4 U
1,2-Dibromo-3-chloropropane	0.010	mg/L	4 U
1,2-Dibromoethane	0.010	mg/L	4 U
1,2-Dichloroethane	0.005	mg/L	4 U
1,2-Dichloroethene	0.005	mg/L	4 U
1,2-Dichloropropane	0.005	mg/L	4 R
1,4-Dioxane	0.200	mg/L	4 U
2-Butanone	0.010	mg/L	4 U
2-Chloro-1,3-butadiene	0.010	mg/L	4 U
2-Hexanone	0.010	mg/L	4 U
3-Chloropropene	0.010	mg/L	4 U
4-Methyl-2-pentanone	0.010	mg/L	4 U
Acetone	0.011	mg/L	4 -
Acetonitrile	0.020	mg/L	4 U
Acrolein	0.020	mg/L	4 U
Acrylonitrile	0.020	mg/L	4 R
Benzene	0.005	mg/L	4 U
Bromodichlormethane	0.005	mg/L	4 U
Bromoform	0.005	mg/L	4 U
Bromomethane	0.010	mg/L	4 U
Carbon Tetrachloride	0.005	mg/L	4 U
Carbon disulfide	0.005	mg/L	4 U
Chlorobenzene	0.005	mg/L	4 U
Chloroethane	0.010	mg/L	4 U
Chloroform	0.002	mg/L	4 -
Chloromethane	0.010	mg/L	4 U
Dibromochloromethane	0.005	mg/L	4 U
Dibromomethane	0.010	mg/L	4 U
Dichlorodifluoromethane	0.200	mg/L	4 R
Ethyl cyanide	0.010	mg/L	4 U
Ethyl methacrylate	0.010	mg/L	4 U
Ethybenzene	0.005	mg/L	4 U
Iodomethane	0.010	mg/L	4 U
Isobutyl alcohol	0.200	mg/L	4 U
Methacrylonitrile	0.010	mg/L	4 U
Methyl methacrylate	0.010	mg/L	4 U
Methylene chloride	0.002	mg/L	4 U

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TABLE D-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	TRIP/FIELD BLANK			
SAMPLE NUMBER	067901	RESULTS	UNITS	L VQ
ASSOCIATED SAMPLES	067902, 067904			
SAMPLING DATE	11/06/91			
CHEMICAL PARAMETERS				
<u>Volatile Organics</u>				
Pyridine	0.010	mg/L	4	UJ
Styrene	0.005	mg/L	4	333
Tetrachloroethene	0.005	mg/L	4	333
Toluene	0.005	mg/L	4	333
Trichloroethene	0.005	mg/L	4	333
Trichlorofluoromethane	0.010	mg/L	4	333
Vinyl Acetate	0.010	mg/L	4	333
Vinyl chloride	0.010	mg/L	4	333
Xylenes, Total	0.005	mg/L	4	333
cis-1,3-Dichloropropene	0.005	mg/L	4	333
trans-1,3-Dichloropropene	0.005	mg/L	4	333
trans-1,4-Dichloro-2-butene	0.010	mg/L	4	333
<u>Semivolatile Organics</u>				
1,2,4,5-Tetrachlorobenzene	0.010	mg/L	4	UJ
1,2,4-Trichlorobenzene	0.010	mg/L	4	333
1,2-Dichlorobenzene	0.010	mg/L	4	333
1,3,5-Trinitrobenzene	0.010	mg/L	4	333
1,3-Dichlorobenzene	0.010	mg/L	4	333
1,3-Dinitrobenzene	0.010	mg/L	4	333
1,4-Dichlorobenzene	0.010	mg/L	4	333
1,4-Naphthoquinone	0.010	mg/L	4	333
1-Naphthylamine	0.120	mg/L	4	333
2,3,4,6-Tetrachlorophenol	0.010	mg/L	4	333
2,4,5-Trichlorophenol	0.050	mg/L	4	333
2,4,6-Trichlorophenol	0.010	mg/L	4	333
2,4-Dichlorophenol	0.010	mg/L	4	333
2,4-Dimethylphenol	0.010	mg/L	4	333
2,4-Dinitrophenol	0.050	mg/L	4	333
2,4-Dinitrotoluene	0.010	mg/L	4	333
2,6-Dichlorophenol	0.010	mg/L	4	333
2,6-Dinitrotoluene	0.010	mg/L	4	333
2-Acetylaminofluorene	0.010	mg/L	4	333
2-Chloronaphthalene	0.010	mg/L	4	333
2-Chlorophenol	0.010	mg/L	4	333
2-Methylnaphthalene	0.010	mg/L	4	333
2-Methylphenol	0.010	mg/L	4	333
2-Naphthylamine	0.170	mg/L	4	333
2-Nitroaniline	0.050	mg/L	4	333
2-Nitrophenol	0.010	mg/L	4	333
2-Picoline	0.070	mg/L	4	333

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TABLE D-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	TRIP/FIELD BLANK
SAMPLE NUMBER	067901
ASSOCIATED SAMPLES	067902, 067704
SAMPLING DATE	11/06/91
CHEMICAL PARAMETERS	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>	
3,3'-Dichlorobenzidine	0.020 mg/L 4 CCCC
3,3'-Dimethylbenzidine	0.080 mg/L 4 CCCC
3-Methylcholanthrene	0.030 mg/L 4 CCCC
3-Methylphenol	0.010 mg/L 4 CCCC
3-Nitroaniline	0.050 mg/L 4 CCCC
4,6-Dinitro-2-methylphenol	0.050 mg/L 4 CCCC
4-Aminobiphenyl	0.050 mg/L 4 CCCC
4-Bromophenyl phenyl ether	0.010 mg/L 4 CCCC
4-Chloro-3-methylphenol	0.010 mg/L 4 CCCC
4-Chlorophenylphenyl ether	0.010 mg/L 4 CCCC
4-Methylphenol	0.010 mg/L 4 CCCC
4-Nitroaniline	0.050 mg/L 4 CCCC
4-Nitrophenol	0.050 mg/L 4 CCCC
4-Nitroquinoline-1-oxide	0.010 mg/L 4 CCCC
5-Nitro-o-toluidine	0.020 mg/L 4 CCCC
7,12-Dimethylbenz(a)anthracene	0.020 mg/L 4 CCCC
Acenaphthene	0.010 mg/L 4 CCCC
Acenaphthylene	0.010 mg/L 4 CCCC
Acetophenone	0.010 mg/L 4 CCCC
Aniline	0.050 mg/L 4 CCCC
Anthracene	0.010 mg/L 4 CCCC
Aramite	0.010 mg/L 4 CCCC
Benz(a)anthracene	0.010 mg/L 4 CCCC
Benz(a)pyrene	0.010 mg/L 4 CCCC
Benz(b)fluoranthene	0.010 mg/L 4 CCCC
Benz(g,h,i)perylene	0.010 mg/L 4 CCCC
Benz(k)fluoranthene	0.010 mg/L 4 CCCC
Benzoic acid	0.050 mg/L 4 CCCC
Benzyl alcohol	0.010 mg/L 4 CCCC
Butyl benzyl phthalate	0.010 mg/L 4 CCCC
Chrysene	0.010 mg/L 4 CCCC
Di-n-butyl phthalate	0.010 mg/L 4 CCCC
Di-n-octyl phthalate	0.010 mg/L 4 CCCC
Diallate	0.010 mg/L 4 CCCC
Dibenz(a,h)anthracene	0.010 mg/L 4 CCCC
Dibenzofuran	0.010 mg/L 4 CCCC
Diethyl phthalate	0.010 mg/L 4 CCCC
Dimethyl phthalate	0.010 mg/L 4 CCCC
Diphenylamine	0.010 mg/L 4 CCCC
Ethyl methanesulfonate	0.010 mg/L 4 CCCC
Fluoranthene	0.010 mg/L 4 CCCC
Fluorene	0.010 mg/L 4 CCCC

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TABLE D-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	TRIP/FIELD BLANK			
SAMPLE NUMBER	067901			
ASSOCIATED SAMPLES	067902, 067904			
SAMPLING DATE	11/06/91			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>				
Hexachlorobenzene	0.010	mg/L	4	U
Hexachlorobutadiene	0.010	mg/L	4	U
Hexachlorocyclopentadiene	0.010	mg/L	4	U
Hexachloroethane	0.010	mg/L	4	U
Hexachlorophene	0.050	mg/L	4	U
Hexachloropropene	0.020	mg/L	4	R
Indeno(1,2,3-cd)pyrene	0.010	mg/L	4	U
Isophorone	0.010	mg/L	4	U
Isosafrole	0.010	mg/L	4	U
Methaphyriene	0.040	mg/L	4	UJ
Methyl methanesulfonate	0.010	mg/L	4	U
Methyl parathion	0.003	mg/L	4	UJ
N-Nitroso-di-n-propylamine	0.010	mg/L	4	U
N-Nitrosodi-n-butylamine	0.020	mg/L	4	UJ
N-Nitrosodiethylamine	0.010	mg/L	4	UJ
N-Nitrosodimethylamine	0.010	mg/L	4	U
N-Nitrosodiphenylamine	0.010	mg/L	4	U
N-Nitrosomethylbutylamine	0.010	mg/L	4	UJ
N-Nitrosomorpholine	0.010	mg/L	4	UJ
N-Nitrosopiperidine	0.010	mg/L	4	U
N-Nitrosopyrrolidine	0.010	mg/L	4	UJ
Naphthalene	0.010	mg/L	4	U
Nitrobenzene	0.010	mg/L	4	U
O,O,O-Triethylphosphorothioate	0.003	mg/L	4	UJ
Parathion	0.003	mg/L	4	UJ
Pentachlorobenzene	0.020	mg/L	4	UJ
Pentachloroethane	0.020	mg/L	4	U
Pentachloronitrobenzene	0.020	mg/L	4	UJ
Pentachlorophenol	0.050	mg/L	4	U
Phenacetin	0.010	mg/L	4	U
Phenanthrene	0.010	mg/L	4	U
Phenol	0.010	mg/L	4	U
Pronamide	0.030	mg/L	4	U
Pyrene	0.010	mg/L	4	U
Safrole	0.010	mg/L	4	U
Sulfotep	0.003	mg/L	4	UJ
Tributyl phosphate	0.010	mg/L	4	U
a,a-Dimethylphenethylamine	0.010	mg/L	4	UJ
bis(2-Chloroethoxy)methane	0.010	mg/L	4	U
bis(2-Chloroethyl)ether	0.010	mg/L	4	U
bis(2-Chloroisopropyl) ether	0.010	mg/L	4	U
bis(2-Ethylhexyl) phthalate	0.010	mg/L	4	U

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0.933

TABLE D-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	TRIP/FIELD BLANK			
SAMPLE NUMBER	067901			
ASSOCIATED SAMPLES	067902, 067904			
SAMPLING DATE	11/06/91			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ
<u>Semivolatile Organics</u>				
o-Toluidine	0.010	mg/L	4	U
p-Chloroaniline	0.010	mg/L	4	U
p-Dimethylaminoazobenzene	0.030	mg/L	4	UJ
p-Phenylenediamine	0.050	mg/L	4	U
<u>Herbicide Organics</u>				
Dinoseb	0.020	mg/L	4	UJ
<u>Pesticide Organics/PCBs</u>				
4,4'-DDD	0.000	mg/L	4	U
4,4'-DDE	0.000	mg/L	4	U
4,4'-DDT	0.000	mg/L	4	U
Aldrin	0.000	mg/L	4	U
Aroclor-1016	0.001	mg/L	4	U
Aroclor-1221	0.001	mg/L	4	U
Aroclor-1232	0.001	mg/L	4	U
Aroclor-1242	0.001	mg/L	4	U
Aroclor-1248	0.001	mg/L	4	U
Aroclor-1254	0.001	mg/L	4	U
Aroclor-1260	0.001	mg/L	4	U
Chlorobenzilate	0.000	mg/L	4	U
Dieldrin	0.000	mg/L	4	U
Dimethoate	0.003	mg/L	4	UJ
Disulfoton	0.003	mg/L	4	UJ
Endosulfan II	0.000	mg/L	4	U
Endosulfan sulfate	0.000	mg/L	4	U
Endosulfan-I	0.000	mg/L	4	U
Endrin	0.000	mg/L	4	U
Endrin ketone	0.000	mg/L	4	U
Famphur	0.003	mg/L	4	UJ
Heptachlor	0.000	mg/L	4	U
Heptachlor epoxide	0.000	mg/L	4	U
Isodrin	0.000	mg/L	4	U
Kepone	0.000	mg/L	4	U
Methoxychlor	0.001	mg/L	4	U
Phorate	0.003	mg/L	4	UJ
Tetraethylpyrophosphate	0.003	mg/L	4	U
Thionazin	0.003	mg/L	4	U
Toxaphene	0.001	mg/L	4	U
alpha-BHC	0.000	mg/L	4	U

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TABLE D-14
(Continued)

PHASE I - CHEMICAL PARAMETERS

QC TYPE	TRIP/FIELD BLANK		
SAMPLE NUMBER	067901		
ASSOCIATED SAMPLES	067902, 067904		
SAMPLING DATE	11/06/91		
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Pesticide Organics/PCBs</u>			
alpha-Chlordane	0.001	mg/L	4 U
beta-BHC	0.000	mg/L	4 U
delta-BHC	0.000	mg/L	4 U
gamma-BHC (Lindane)	0.000	mg/L	4 U
gamma-Chlordane	0.001	mg/L	4 U

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TABLE D-14
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

QC TYPE SAMPLE NUMBER ASSOCIATED SAMPLES SAMPLING DATE RADIOLOGICAL PARAMETERS	FIELD BLANK			FIELD BLANK			FIELD BLANK		
	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ	RESULTS	UNITS	VQ
CS-137	14.600	pCi/L	UJ	16.000	pCi/L	UJ	10.300	pCi/L	UJ
GROSS ALPHA	0.494	pCi/L	UJ	0.433	pCi/L	UJ	0.445	pCi/L	UJ
GROSS BETA	0.992	pCi/L	UJ	1.030	pCi/L	UJ	1.030	pCi/L	UJ
NP-237	0.390	pCi/L	N	0.148	pCi/L	R	0.219	pCi/L	N
PU-238	0.656	pCi/L	J	0.071	pCi/L	UJ	0.234	pCi/L	UJ
PU-239/240	0.170	pCi/L	J	0.147	pCi/L	UJ	0.134	pCi/L	J
RA-226	0.130	pCi/L	UJ	0.218	pCi/L	UJ	0.135	pCi/L	UJ
RA-228	1.190	pCi/L	UJ	2.900	pCi/L	UJ	2.310	pCi/L	UJ
RU-106	143.000	pCi/L	UJ	102.000	pCi/L	UJ	132.000	pCi/L	UJ
SR-90	2.330	pCi/L	U	0.800	pCi/L	UJ	0.837	pCi/L	UJ
TC-99	7.800	pCi/L	UJ	9.200	pCi/L	UJ	9.400	pCi/L	UJ
TH-228	0.220	pCi/L	UJ	0.411	pCi/L	UJ	0.257	pCi/L	UJ
TH-230	1.288	pCi/L	J	0.271	pCi/L	UJ	0.123	pCi/L	UJ
TH-232	0.297	pCi/L	UJ	0.328	pCi/L	UJ	0.168	pCi/L	UJ
TH-TOTAL	2.730	ug/L	UJ	3.020	ug/L	UJ	1.540	ug/L	UJ
U-234	0.061	pCi/L	J	0.101	pCi/L	UJ	1.580	pCi/L	-
U-235/236	0.051	pCi/L	UJ	0.125	pCi/L	UJ	0.073	pCi/L	J
U-238	0.119	pCi/L	UJ	0.123	pCi/L	UJ	1.430	pCi/L	-
U-TOTAL	1.000	ug/L	U	1.000	ug/L	U	1.000	ug/L	U

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TABLE D-14
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

QC TYPE SAMPLE NUMBER ASSOCIATED SAMPLES	RINSATE 114580 114579, 114600, 114601, 114602	RINSATE 114588 114581, 114582, 114583 114586, 114587	RINSATE 114725 114609
SAMPLING DATE	05/10/93	05/11/93	05/26/93
RADIOLOGICAL PARAMETERS	RESULTS UNITS VQ	RESULTS UNITS VQ	RESULTS UNITS VQ
CS-137	17.400 pc ⁱ /L UJ	12.700 pc ⁱ /L UJ	20.000 pc ⁱ /L UJ
GROSS ALPHA	0.384 pc ⁱ /L UJ	0.358 pc ⁱ /L UJ	4.000 pc ⁱ /L UJ
GROSS BETA	0.948 pc ⁱ /L UJ	0.980 pc ⁱ /L UJ	4.000 pc ⁱ /L UJ
NP-237	0.235 pc ⁱ /L N	0.643 pc ⁱ /L UJ	1.000 pc ⁱ /L U
PU-238	0.192 pc ⁱ /L J	0.096 pc ⁱ /L UJ	1.000 pc ⁱ /L J
PU-239/240	0.146 pc ⁱ /L J	0.244 pc ⁱ /L UJ	1.000 pc ⁱ /L U
RA-226	0.136 pc ⁱ /L UJ	1.000 pc ⁱ /L R	1.000 pc ⁱ /L UJ
RA-228	2.840 pc ⁱ /L UJ	3.000 pc ⁱ /L R	3.000 pc ⁱ /L UJ
RU-106	112.000 pc ⁱ /L UJ	118.000 pc ⁱ /L UJ	113.000 pc ⁱ /L UJ
SR-90	0.711 pc ⁱ /L UJ	0.718 pc ⁱ /L UJ	5.000 pc ⁱ /L UJ
TC-99	10.300 pc ⁱ /L UJ	9.000 pc ⁱ /L UJ	30.000 pc ⁱ /L UJ
TH-228	0.215 pc ⁱ /L UJ	0.318 pc ⁱ /L UJ	1.000 pc ⁱ /L UJ
TH-230	0.489 pc ⁱ /L J	0.665 pc ⁱ /L UJ	1.000 pc ⁱ /L U
TH-232	0.141 pc ⁱ /L UJ	0.235 pc ⁱ /L UJ	1.000 pc ⁱ /L UJ
TH-TOTAL	1.300 ug/L UJ	2.160 ug/L UJ	0.230 ug/L UJ
U-234	0.127 pc ⁱ /L UJ	0.299 pc ⁱ /L UJ	1.000 pc ⁱ /L J
U-235/236	0.129 pc ⁱ /L UJ	0.668 pc ⁱ /L UJ	1.000 pc ⁱ /L J
U-238	0.104 pc ⁱ /L UJ	0.199 pc ⁱ /L U	1.000 pc ⁱ /L J
U-TOTAL	0.053 ug/L J	1.000 ug/L U	1.000 ug/L UJ

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TABLE D-14
(Continued)

PHASE II - RADIOLOGICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE
SAMPLE NUMBER	114811	114829	114870
ASSOCIATED SAMPLES	114816	114824	114868
SAMPLING DATE	06/05/93	06/06/93	06/10/93
RADIOLOGICAL PARAMETERS	RESULTS	UNITS	VQ
CS-137	15.000	pCi/L	UJ
GROSS ALPHA	0.480	pCi/L	UJ
GROSS BETA	0.950	pCi/L	UJ
NP-237	0.310	pCi/L	J
PU-238	0.012	pCi/L	J
PU-239/240	0.210	pCi/L	J
RA-226	0.210	pCi/L	UJ
RA-228	2.590	pCi/L	U
RU-106	130.000	pCi/L	UJ
SR-90	0.720	pCi/L	UJ
TC-99	10.650	pCi/L	UJ
TH-228	0.180	pCi/L	UJ
TH-230	0.230	pCi/L	U
TH-232	0.110	pCi/L	UJ
TH-TOTAL	0.990	ug/L	UJ
U-234	0.180	pCi/L	UJ
U-235/236	0.110	pCi/L	UJ
U-238	0.110	pCi/L	UJ
U-TOTAL	1.000	ug/L	U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK	FIELD BLANK	FIELD BLANK
SAMPLE NUMBER	114579 114600, 114602, 114580	114761 114745, 114746, 114747 114742, 114743	114826 114821, 114822, 114823, 114824
ASSOCIATED SAMPLES			
SAMPLING DATE	05/10/93	06/03/93	06/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
Inorganics			
Aluminum	NA		0.030 mg/L C U
Antimony	NA		0.005 mg/L C U
Arsenic	NA		0.002 mg/L C R
Barium	NA		0.002 mg/L C U
Beryllium	NA		0.002 mg/L C U
Cadmium	NA		0.005 mg/L C U
Calcium	NA		0.020 mg/L C U
Chromium	NA		0.010 mg/L C U
Cobalt	NA		0.010 mg/L C U
Copper	NA		0.010 mg/L C
Cyanide	NA		0.002 mg/L C
Iron	NA		0.020 mg/L C
Lead	NA		0.002 mg/L C
Magnesium	NA		0.050 mg/L C
Manganese	NA		0.010 mg/L C
Mercury	NA		0.000 mg/L C
Molybdenum	NA		0.010 mg/L C
Nickel	NA		0.020 mg/L C
Potassium	NA		0.100 mg/L C
Selenium	NA		0.002 mg/L C
Silicon	NA		0.066 mg/L C
Silver	NA		0.010 mg/L C
Sodium	NA		0.100 mg/L C
Thallium	NA		0.002 mg/L C
Vanadium	NA		0.010 mg/L C
Zinc	NA		0.009 mg/L C
Volatile Organics			
1,1,1-Trichloroethane	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
1,1,2-Tetrachloroethane	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
1,1,2-Trichloroethane	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
1,1-Dichloroethane	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
1,1-Dichloroethene	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
1,2-Dichloroethane	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
1,2-Dichloroethene	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
1,2-Dichloropropane	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
2-Butanone	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
2-Hexanone	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
4-Methyl-2-pentanone	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
Acetone	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U
Benzene	0.010 mg/L C U	0.010 mg/L C U	0.010 mg/L C U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK			FIELD BLANK			FIELD BLANK					
SAMPLE NUMBER	114579			114761			114826					
ASSOCIATED SAMPLES	114600, 114602, 114580			114745, 114746, 114747			114821, 114822, 114823, 114824					
SAMPLING DATE	05/10/93			06/03/93			06/06/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes; Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	NA				0.010	mg/L	C	U	NA			
1,2-Dichlorobenzene	NA				0.010	mg/L	C	U	NA			
1,3-Dichlorobenzene	NA				0.010	mg/L	C	U	NA			
1,4-Dichlorobenzene	NA				0.010	mg/L	C	U	NA			
2,4,5-Trichlorophenol	NA				0.025	mg/L	C	U	NA			
2,4,6-Trichlorophenol	NA				0.010	mg/L	C	U	NA			
2,4-Dichlorophenol	NA				0.010	mg/L	C	U	NA			
2,4-Dimethylphenol	NA				0.010	mg/L	C	U	NA			
2,4-Dinitrophenol	NA				0.025	mg/L	C	U	NA			
2,4-Dinitrotoluene	NA				0.010	mg/L	C	U	NA			
2,6-Dinitrotoluene	NA				0.010	mg/L	C	U	NA			
2-Benzyl-4-chlorophenol	NA				0.010	mg/L	C	U	NA			
2-Chloronaphthalene	NA				0.010	mg/L	C	U	NA			
2-Chlorophenol	NA				0.010	mg/L	C	U	NA			
2-Methylnaphthalene	NA				0.010	mg/L	C	U	NA			
2-Methylphenol	NA				0.010	mg/L	C	U	NA			
2-Nitroaniline	NA				0.025	mg/L	C	U	NA			
2-Nitrophenol	NA				0.010	mg/L	C	U	NA			

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK	FIELD BLANK	FIELD BLANK
SAMPLE NUMBER	114579	114761	114826
ASSOCIATED SAMPLES	114600, 114602, 114580	114745, 114746, 114747	114821, 114822, 114823, 114824
SAMPLING DATE	05/10/93	06/03/93	06/06/93
CHEMICAL PARAMETERS	RESULTS UNITS L VQ	RESULTS UNITS L VQ	RESULTS UNITS L VQ
<u>Semivolatile Organics</u>			
3,3'-Dichlorobenzidine	NA	0.010 mg/L C U	NA
3-Nitroaniline	NA	0.025 mg/L C U	NA
4,6-Dinitro-2-methylphenol	NA	0.025 mg/L C U	NA
4-Bromophenyl phenyl ether	NA	0.010 mg/L C U	NA
4-Chloro-3-methylphenol	NA	0.010 mg/L C U	NA
4-Chlorophenylphenyl ether	NA	0.010 mg/L C U	NA
4-Methylphenol	NA	0.010 mg/L C U	NA
4-Nitroaniline	NA	0.025 mg/L C U	NA
4-Nitrophenol	NA	0.025 mg/L C U	NA
Acenaphthene	NA	0.010 mg/L C U	NA
Acenaphthylene	NA	0.010 mg/L C U	NA
Anthracene	NA	0.010 mg/L C U	NA
Benzo(a)anthracene	NA	0.010 mg/L C U	NA
Benzo(a)pyrene	NA	0.010 mg/L C U	NA
Benzo(b)fluoranthene	NA	0.010 mg/L C U	NA
Benzo(g,h,i)perylene	NA	0.010 mg/L C U	NA
Benzo(k)fluoranthene	NA	0.010 mg/L C U	NA
Benzoic acid	NA	0.050 mg/L C U	NA
Benzyl alcohol	NA	0.010 mg/L C U	NA
Butyl benzyl phthalate	NA	0.010 mg/L C U	NA
Carbazole	NA	0.010 mg/L C U	NA
Chrysene	NA	0.010 mg/L C U	NA
Di-n-butyl phthalate	NA	0.010 mg/L C U	NA
Di-n-octyl phthalate	NA	0.010 mg/L C U	NA
Dibenzo(a,h)anthracene	NA	0.010 mg/L C U	NA
Dibenzofuran	NA	0.010 mg/L C U	NA
Diethyl phthalate	NA	0.010 mg/L C U	NA
Dimethyl phthalate	NA	0.010 mg/L C U	NA
Fluoranthene	NA	0.010 mg/L C U	NA
Fluorene	NA	0.010 mg/L C U	NA
Hexachlorobenzene	NA	0.010 mg/L C U	NA
Hexachlorobutadiene	NA	0.010 mg/L C U	NA
Hexachlorocyclopentadiene	NA	0.010 mg/L C U	NA
Hexachloroethane	NA	0.010 mg/L C U	NA
Indeno(1,2,3-cd)pyrene	NA	0.010 mg/L C U	NA
Isophorone	NA	0.010 mg/L C U	NA
N-Nitroso-di-n-propylamine	NA	0.010 mg/L C U	NA
N-Nitrosodimethylamine	NA	0.010 mg/L C U	NA
N-Nitrosodiphenylamine	NA	0.010 mg/L C U	NA
Naphthalene	NA	0.010 mg/L C U	NA
Nitrobenzene	NA	0.010 mg/L C U	NA
Pentachlorophenol	NA	0.025 mg/L C U	NA

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK	FIELD BLANK	FIELD BLANK
SAMPLE NUMBER	114579	114761	114826
ASSOCIATED SAMPLES	114600, 114602, 114580	114745, 114746, 114747 114742, 114743	114821, 114822, 114823, 114824
SAMPLING DATE	05/10/93	06/03/93	06/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>Semivolatile Organics</u>			
Phenanthrene	NA		0.010 mg/L C U
Phenol	NA		0.010 mg/L C C
Pyrene	NA		0.010 mg/L C C
Tributyl phosphate	NA		0.010 mg/L C C
bis(2-Chloroethoxy)methane	NA		0.010 mg/L C C
bis(2-Chloroethyl)ether	NA		0.010 mg/L C C
bis(2-Chloroisopropyl) ether	NA		0.010 mg/L C C
bis(2-Ethylhexyl) phthalate	NA		0.010 mg/L C C
p-Chloroaniline	NA		0.010 mg/L C U
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	NA		0.000 mg/L C C
4,4'-DDE	NA		0.000 mg/L C C
4,4'-DDT	NA		0.000 mg/L C C
Aldrin	NA		0.000 mg/L C C
Aroclor-1016	NA		0.001 mg/L C C
Aroclor-1221	NA		0.002 mg/L C C
Aroclor-1232	NA		0.001 mg/L C C
Aroclor-1242	NA		0.001 mg/L C C
Aroclor-1248	NA		0.001 mg/L C C
Aroclor-1254	NA		0.001 mg/L C C
Aroclor-1260	NA		0.001 mg/L C C
Dieldrin	NA		0.000 mg/L C C
Endosulfan II	NA		0.000 mg/L C C
Endosulfan sulfate	NA		0.000 mg/L C C
Endosulfan-I	NA		0.000 mg/L C C
Endrin	NA		0.000 mg/L C C
Endrin aldehyde	NA		0.000 mg/L C C
Endrin ketone	NA		0.000 mg/L C C
Heptachlor	NA		0.000 mg/L C C
Heptachlor epoxide	NA		0.000 mg/L C C
Methoxychlor	NA		0.001 mg/L C C
Toxaphene	NA		0.005 mg/L C C
alpha-BHC	NA		0.000 mg/L C C
alpha-Chlordane	NA		0.000 mg/L C C
beta-BHC	NA		0.000 mg/L C C
delta-BHC	NA		0.000 mg/L C C
gamma-BHC (Lindane)	NA		0.000 mg/L C C
gamma-Chlordane	NA		0.000 mg/L C C
<u>General Chemistry</u>			
Alkalinity	NA		2.600 mg/L B -
			NA

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK	FIELD BLANK	FIELD BLANK
SAMPLE NUMBER	114579	114761	114826
ASSOCIATED SAMPLES	114600, 114602, 114580	114745, 114746, 114747 114742, 114743	114821, 114822, 114823, 114824
SAMPLING DATE	05/10/93	06/03/93	06/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS
<u>General Chemistry</u>			
Ammonia	NA	0.100 mg/L B U	NA
Chloride	NA	0.500 mg/L B UU	NA
Fluoride	NA	0.050 mg/L B UU	NA
Nitrate	NA	0.100 mg/L B R	NA
Phenols	NA	0.010 mg/kg B UU	NA
Sulfate	NA	2.000 mg/L B U	NA
Sulfide	NA	41.800 mg/L B -	NA
Total Kjeldahl Nitrogen	NA	0.500 mg/L B UU	NA
Total Organic Carbon	NA	1.000 mg/L B UU	NA
Total Organic Halides	NA	0.010 mg/L B UU	NA
Total Organic Nitrogen	NA	0.100 mg/L B UU	NA
Total Phosphorous	NA	0.040 mg/L B -	NA

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK				FIELD BLANK				TRIP BLANK			
SAMPLE NUMBER	114869				114927				114468			
ASSOCIATED SAMPLES	114868				114921, 114924				114467, 114469			
SAMPLING DATE	06/09/93				06/13/93				05/01/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Inorganics</u>												
Aluminum	0.030	mg/L	C	U	0.030	mg/L	C	U	NA			
Antimony	0.059	mg/L	C	U	0.059	mg/L	C	U	NA			
Arsenic	0.001	mg/L	C	U	0.001	mg/L	C	U	NA			
Barium	0.002	mg/L	C	U	0.002	mg/L	C	U	NA			
Beryllium	0.000	mg/L	C	U	0.000	mg/L	C	U	NA			
Cadmium	0.003	mg/L	C	U	0.003	mg/L	C	U	NA			
Calcium	0.051	mg/L	C	U	0.202	mg/L	C	U	NA			
Chromium	0.005	mg/L	C	U	0.005	mg/L	C	U	NA			
Cobalt	0.004	mg/L	C	U	0.004	mg/L	C	U	NA			
Copper	0.003	mg/L	C	U	0.003	mg/L	C	U	NA			
Cyanide					0.002	mg/L	C	U	NA			
Iron	NA				0.044	mg/L	C	U	NA			
Lead	0.034	mg/L	C	U	0.001	mg/L	C	U	NA			
Magnesium	0.001	mg/L	C	U	0.091	mg/L	C	U	NA			
Manganese	0.022	mg/L	C	U	0.001	mg/L	C	U	NA			
Mercury	0.001	mg/L	C	U	0.000	mg/L	C	U	NA			
Molybdenum	0.000	mg/L	C	U	0.007	mg/L	C	U	NA			
Nickel	0.007	mg/L	C	U	0.021	mg/L	C	U	NA			
Potassium	0.021	mg/L	C	U	0.001	mg/L	C	U	NA			
Selenium	2.980	mg/L	C	U	2.980	mg/L	C	U	NA			
Silicon	0.001	mg/L	C	U	0.001	mg/L	C	U	NA			
Silver	0.059	mg/L	C	U	0.141	mg/L	C	U	NA			
Sodium	0.004	mg/L	C	U	0.004	mg/L	C	U	NA			
Thallium	0.091	mg/L	C	U	0.210	mg/L	C	U	NA			
Vanadium	0.001	mg/L	C	U	0.001	mg/L	C	U	NA			
Zinc	0.002	mg/L	C	U	0.002	mg/L	C	U	NA			
0.010	mg/L	C	U	0.017	mg/L	C	U	NA				
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.002	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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(Continued)

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PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK				FIELD BLANK				TRIP BLANK				
SAMPLE NUMBER	114869				114927				114468				
ASSOCIATED SAMPLES	114868				114921, 114924				114467, 114469				
SAMPLING DATE	06/09/93				06/13/93				05/01/93				
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	
<u>Volatile Organics</u>													
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Chloroform	0.001	mg/L	C	U	0.001	mg/L	C	U	0.010	mg/L	C	U	
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.005	mg/L	C	U	
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	NA	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U	
<u>Semivolatile Organics</u>													
1,2,4-Trichlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
1,2-Dichlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
1,3-Dichlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
1,4-Dichlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2,4,5-Trichlorophenol	0.025	mg/L	C	U	0.025	mg/L	C	U	NA				
2,4,6-Trichlorophenol	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2,4-Dichlorophenol	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2,4-Dimethylphenol	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2,4-Dinitrophenol	0.025	mg/L	C	U	0.025	mg/L	C	U	NA				
2,4-Dinitrotoluene	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2,6-Dinitrotoluene	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2-Benzyl-4-chlorophenol	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2-Chloronaphthalene	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2-Chlorophenol	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2-Methylnaphthalene	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2-Methylphenol	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				
2-Nitroaniline	0.025	mg/L	C	U	0.025	mg/L	C	U	NA				
2-Nitrophenol	0.010	mg/L	C	U	0.010	mg/L	C	U	NA				

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

CHEMICAL PARAMETERS	FIELD BLANK			FIELD BLANK			TRIP BLANK		
	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>									
3,3'-Dichlorobenzidine	0.010	mg/L	C U	0.010	mg/L	C U	NA		
3-Nitroaniline	0.025	mg/L	C U	0.025	mg/L	C U	NA		
4,6-Dinitro-2-methylphenol	0.025	mg/L	C U	0.025	mg/L	C U	NA		
4-Bromophenyl phenyl ether	0.010	mg/L	C U	0.010	mg/L	C U	NA		
4-Chloro-3-methylphenol	0.010	mg/L	C U	0.010	mg/L	C U	NA		
4-Chlorophenylphenyl ether	0.010	mg/L	C U	0.010	mg/L	C U	NA		
4-Methylphenol	0.010	mg/L	C U	0.010	mg/L	C U	NA		
4-Nitroaniline	0.025	mg/L	C U	0.025	mg/L	C U	NA		
4-Nitrophenol	0.025	mg/L	C U	0.025	mg/L	C U	NA		
Acenaphthene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Acenaphthylene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Anthracene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Benzo(a)anthracene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Benzo(a)pyrene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Benzo(b)fluoranthene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Benzo(g,h,i)perylene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Benzo(k)fluoranthene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Benzoic acid	0.050	mg/L	C U	0.050	mg/L	C U	NA		
Benzyl alcohol	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Butyl benzyl phthalate	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Carbazole	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Chrysene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Di-n-butyl phthalate	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Di-n-octyl phthalate	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Dibenzo(a,h)anthracene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Dibenzofuran	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Diethyl phthalate	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Dimethyl phthalate	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Fluoranthene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Fluorene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Hexachlorobenzene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Hexachlorobutadiene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Hexachlorocyclopentadiene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Hexachloroethane	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Indeno(1,2,3-cd)pyrene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Isophorone	0.010	mg/L	C U	0.010	mg/L	C U	NA		
N-Nitroso-di-n-propylamine	0.010	mg/L	C U	0.010	mg/L	C U	NA		
N-Nitrosodimethylamine	0.010	mg/L	C U	0.010	mg/L	C U	NA		
N-Nitrosodiphenylamine	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Naphthalene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Nitrobenzene	0.010	mg/L	C U	0.010	mg/L	C U	NA		
Pentachlorophenol	0.025	mg/L	C U	0.025	mg/L	C U	NA		

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK	FIELD BLANK	TRIP BLANK		
SAMPLE NUMBER	114869	114927	114468		
ASSOCIATED SAMPLES	114868	114921, 114924	114467, 114469		
SAMPLING DATE	06/09/93	06/13/93	05/01/93		
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS		
<u>Semivolatile Organics</u>					
Phenanthrene	0.010	mg/L C U	0.010	mg/L C U	NA
Phenol	0.010	mg/L C U	0.010	mg/L C	NA
Pyrene	0.010	mg/L C U	0.010	mg/L C	NA
Tributyl phosphate	0.010	mg/L C U	0.010	mg/L C	NA
bis(2-Chloroethoxy)methane	0.010	mg/L C U	0.010	mg/L C	NA
bis(2-Chloroethyl)ether	0.010	mg/L C U	0.010	mg/L C	NA
bis(2-Chloroisopropyl) ether	0.010	mg/L C U	0.010	mg/L C	NA
bis(2-Ethylhexyl) phthalate	0.010	mg/L C U	0.010	mg/L C	NA
p-Chloroaniline	0.010	mg/L C U	0.010	mg/L C U	NA
<u>Pesticide Organics/PCBs</u>					
4,4'-DDD	0.000	mg/L C U	0.000	mg/L C	NA
4,4'-DDE	0.000	mg/L C U	0.000	mg/L C	NA
4,4'-DDT	0.000	mg/L C U	0.000	mg/L C	NA
Aldrin	0.000	mg/L C U	0.000	mg/L C	NA
Aroclor-1016	0.001	mg/L C U	0.001	mg/L C	NA
Aroclor-1221	0.002	mg/L C U	0.002	mg/L C	NA
Aroclor-1232	0.001	mg/L C U	0.001	mg/L C	NA
Aroclor-1242	0.001	mg/L C U	0.001	mg/L C	NA
Aroclor-1248	0.001	mg/L C U	0.001	mg/L C	NA
Aroclor-1254	0.001	mg/L C U	0.001	mg/L C	NA
Aroclor-1260	0.001	mg/L C U	0.001	mg/L C	NA
Dieldrin	0.000	mg/L C U	0.000	mg/L C	NA
Endosulfan II	0.000	mg/L C U	0.000	mg/L C	NA
Endosulfan sulfate	0.000	mg/L C U	0.000	mg/L C	NA
Endosulfan-I	0.000	mg/L C U	0.000	mg/L C	NA
Endrin	0.000	mg/L C U	0.000	mg/L C	NA
Endrin aldehyde	0.000	mg/L C U	0.000	mg/L C	NA
Endrin ketone	0.000	mg/L C U	0.000	mg/L C	NA
Heptachlor	NA		0.000	mg/L C	NA
Heptachlor epoxide	0.000	mg/L C U	0.000	mg/L C	NA
Methoxychlor	0.001	mg/L C U	0.001	mg/L C	NA
Toxaphene	0.005	mg/L C U	0.005	mg/L C	NA
alpha-BHC	0.000	mg/L C U	0.000	mg/L C	NA
alpha-Chlordane	0.000	mg/L C U	0.000	mg/L C	NA
beta-BHC	0.000	mg/L C U	0.000	mg/L C	NA
delta-BHC	0.000	mg/L C U	0.000	mg/L C	NA
gamma-BHC (Lindane)	0.000	mg/L C U	0.000	mg/L C	NA
gamma-Chlordane	0.000	mg/L C U	0.000	mg/L C	NA
<u>General Chemistry</u>					
Alkalinity	NA		2.300 mg/L B -	NA	

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	FIELD BLANK				FIELD BLANK				TRIP BLANK			
SAMPLE NUMBER	114869				114927				114468			
ASSOCIATED SAMPLES	114868				114921, 114924				114467, 114469			
SAMPLING DATE	06/09/93				06/13/93				05/01/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>General Chemistry</u>												
Ammonia	0.100	mg/L	B	U	0.100	mg/L	B	U	NA			
Chloride	0.500	mg/L	B	U	0.500	mg/L	B	U	NA			
Fluoride	0.050	mg/L	B	U	0.050	mg/L	B	U	NA			
Nitrate	0.100	mg/L	B	R	0.100	mg/L	B	R	NA			
Phenols	0.010	mg/L	B	U	0.010	mg/L	B	U	NA			
Phosphorus	0.020	mg/L	B	U	0.070	mg/L	B	U	NA			
Sulfate	2.000	mg/L	B	U	2.000	mg/L	B	U	NA			
Sulfide	0.500	mg/L	B	UJ	0.500	mg/L	B	U	NA			
Total Kjeldahl Nitrogen	0.100	mg/L	B	U	0.100	mg/L	B	U	NA			
Total Organic Carbon	1.000	mg/L	B	U	1.000	mg/L	B	U	NA			
Total Organic Halides	10.000	mg/L	B	U	0.010	mg/L	B	UJ	NA			
Total Organic Nitrogen	0.100	mg/L	B	U	0.100	mg/L	B	U	NA			

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE
SAMPLE NUMBER	114580	114588	114725
ASSOCIATED SAMPLES	114600, 114602	114581, 114583	114609
SAMPLING DATE	05/10/93	05/11/93	05/26/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Inorganics</u>			
Aluminum	0.008	mg/L	C U
Antimony	0.002	mg/L	C U
Arsenic	0.001	mg/L	C U
Barium	0.001	mg/L	C U
Beryllium	0.001	mg/L	C U
Cadmium	0.002	mg/L	C U
Calcium	0.044	mg/L	C U
Chromium	0.004	mg/L	C U
Cobalt	0.003	mg/L	C U
Copper	0.004	mg/L	C U
Cyanide	0.085	mg/L	C U
Iron	0.001	mg/L	C U
Lead	0.039	mg/L	C U
Magnesium	0.002	mg/L	C U
Manganese	0.000	mg/L	C U
Mercury	0.003	mg/L	C U
Molybdenum	0.003	mg/L	C U
Nickel	0.003	mg/L	C U
Potassium	0.089	mg/L	C U
Selenium	0.001	mg/L	C U
Silicon	0.060	mg/L	C U
Silver	0.002	mg/L	C U
Sodium	0.035	mg/L	C U
Thallium	0.001	mg/L	C U
Vanadium	0.001	mg/L	C U
Zinc	0.014	mg/L	C U
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	0.010	mg/L	C U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C U
1,1,2-Trichloroethane	0.010	mg/L	C U
1,1-Dichloroethane	0.010	mg/L	C U
1,1-Dichloroethene	0.010	mg/L	C U
1,2-Dichloroethane	0.010	mg/L	C U
1,2-Dichloroethene	0.010	mg/L	C U
1,2-Butanone	0.010	mg/L	C U
2-Hexanone	0.010	mg/L	C U
4-Methyl-2-pentanone	0.010	mg/L	C U
Acetone	0.010	mg/L	C U
Benzene	0.010	mg/L	C U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE									
SAMPLE NUMBER	114580	114588	114725									
ASSOCIATED SAMPLES	114600, 114602	114581, 114583	114609									
SAMPLING DATE	05/10/93	05/11/93	05/26/93									
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	CCC	CCC	0.010	mg/L	C	U	0.010	mg/L	CCC	CCC
Bromomethane	0.010	mg/L	CCC	CCC	0.010	mg/L	C	U	0.010	mg/L	CCC	CCC
Carbon Tetrachloride	0.010	mg/L	CCC	CCC	0.010	mg/L	C	U	0.010	mg/L	CCC	CCC
Carbon disulfide	0.010	mg/L	CCC	CCC	0.010	mg/L	C	U	0.010	mg/L	CCC	CCC
Chlorobenzene	0.010	mg/L	CCC	CCC	0.010	mg/L	C	U	0.010	mg/L	CCC	CCC
Chloroethane	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Chloroform	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Chloromethane	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Dibromochloromethane	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Ethylbenzene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Methylene chloride	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Styrene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Tetrachloroethene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Toluene	0.010	mg/L	CCC	CCC	0.003	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Trichloroethene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Vinyl Acetate	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Vinyl chloride	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
Xylenes, Total	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
cis-1,3-Dichloropropene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
trans-1,3-Dichloropropene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
<u>Semivolatile Organics</u>												
1,2,4-Trichlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichlorobenzene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
1,3-Dichlorobenzene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
1,4-Dichlorobenzene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
2,4,5-Trichlorophenol	0.025	mg/L	CCC	CCC	0.025	mg/L	CCC	CCC	0.025	mg/L	CCC	CCC
2,4,6-Trichlorophenol	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
2,4-Dichlorophenol	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
2,4-Dimethylphenol	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
2,4-Dinitrophenol	0.025	mg/L	CCC	CCC	0.025	mg/L	CCC	CCC	0.025	mg/L	CCC	CCC
2,4-Dinitrotoluene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
2,6-Dinitrotoluene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
2-Chloronaphthalene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
2-Chlorophenol	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
2-Methylnaphthalene	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
2-Methylphenol	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
2-Nitroaniline	0.025	mg/L	CCC	CCC	0.025	mg/L	CCC	CCC	0.025	mg/L	CCC	CCC
2-Nitrophenol	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC
3,3'-Dichlorobenzidine	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC	0.010	mg/L	CCC	CCC

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE
SAMPLE NUMBER	114580	114588	114725
ASSOCIATED SAMPLES	114600, 114602	114581, 114583	114609
SAMPLING DATE	05/10/93	05/11/93	05/26/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>			
3-Nitroaniline	0.025	mg/L	C U
4,6-Dinitro-2-methylphenol	0.025	mg/L	C C C
4-Bromophenyl phenyl ether	0.010	mg/L	C C C C
4-Chloro-3-methylphenol	0.010	mg/L	C C C C
4-Chlorophenylphenyl ether	0.010	mg/L	C C C C
4-Methylphenol	0.010	mg/L	C C C C
4-Nitroaniline	0.025	mg/L	C C C C
4-Nitrophenol	0.025	mg/L	C C C C
Acenaphthene	0.010	mg/L	C C C C
Acenaphthylene	0.010	mg/L	C C C C
Anthracene	0.010	mg/L	C C C C
Benz(a)anthracene	0.010	mg/L	C C C C
Benz(a)pyrene	0.010	mg/L	C C C C
Benz(b)fluoranthene	0.010	mg/L	C C C C
Benz(g,h,i)perylene	0.010	mg/L	C C C C
Benz(k)fluoranthene	0.010	mg/L	C C C C
Benzoic acid	NA	mg/L	C C C C
Benzyl alcohol	NA	mg/L	C C C C
Butyl benzyl phthalate	0.010	mg/L	C C C C
Carbazole	0.010	mg/L	C C C C
Chrysene	0.010	mg/L	C C C C
Di-n-butyl phthalate	0.010	mg/L	C C C C
Di-n-octyl phthalate	0.010	mg/L	C C C C
Dibenzo(a,h)anthracene	0.010	mg/L	C C C C
Dibenzofuran	0.010	mg/L	C C C C
Diethyl phthalate	0.010	mg/L	C C C C
Dimethyl phthalate	0.010	mg/L	C C C C
Fluoranthene	0.010	mg/L	C C C C
Fluorene	0.010	mg/L	C C C C
Hexachlorobenzene	0.010	mg/L	C C C C
Hexachlorobutadiene	0.010	mg/L	C C C C
Hexachlorocyclopentadiene	0.010	mg/L	C C C C
Hexachloroethane	0.010	mg/L	C C C C
Indeno(1,2,3-cd)pyrene	0.010	mg/L	C C C C
Isophorone	0.010	mg/L	C C C C
N-Nitroso-di-n-propylamine	0.010	mg/L	C C C C
N-Nitrosodiphenylamine	0.010	mg/L	C C C C
Naphthalene	0.010	mg/L	C C C C
Nitrobenzene	0.010	mg/L	C C C C
Pentachlorophenol	0.025	mg/L	C C C C
Phenanthrene	0.010	mg/L	C C C C
Phenol	0.010	mg/L	C C C C

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE
SAMPLE NUMBER	114580	114588	114725
ASSOCIATED SAMPLES	114600, 114602	114581, 114583	114609
SAMPLING DATE	05/10/93	05/11/93	05/26/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>			
Pyrene	0.010	mg/L	C U
bis(2-Chloroethoxy)methane	0.010	mg/L	C U
bis(2-Chloroethyl)ether	0.010	mg/L	C U
bis(2-Chloroisopropyl) ether	0.010	mg/L	C U
bis(2-Ethylhexyl) phthalate	0.010	mg/L	C U
p-Chloroaniline	0.010	mg/L	C U
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	0.000	mg/L	C U
4,4'-DDE	0.000	mg/L	C U
4,4'-DDT	0.000	mg/L	C U
Aldrin	0.000	mg/L	C U
Aroclor-1016	0.001	mg/L	C U
Aroclor-1221	0.002	mg/L	C U
Aroclor-1232	0.001	mg/L	C U
Aroclor-1242	0.001	mg/L	C U
Aroclor-1248	0.001	mg/L	C U
Aroclor-1254	0.001	mg/L	C U
Aroclor-1260	0.001	mg/L	C U
Dieldrin	0.000	mg/L	C U
Endosulfan II	0.000	mg/L	C U
Endosulfan sulfate	0.000	mg/L	C U
Endosulfan-I	0.000	mg/L	C U
Endrin	0.000	mg/L	C U
Endrin aldehyde	0.000	mg/L	C U
Endrin ketone	0.000	mg/L	C U
Heptachlor	0.000	mg/L	C U
Heptachlor epoxide	0.000	mg/L	C U
Methoxychlor	0.001	mg/L	C U
Toxaphene	0.005	mg/L	C U
alpha-BHC	0.000	mg/L	C U
alpha-Chlordane	0.000	mg/L	C U
beta-BHC	0.000	mg/L	C U
delta-BHC	0.000	mg/L	C U
gamma-BHC (Lindane)	0.000	mg/L	C U
gamma-Chlordane	0.000	mg/L	C U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE
SAMPLE NUMBER	114811	114829	114870
ASSOCIATED SAMPLES	114816, 114812, 114814, 114815	114821	114868
SAMPLING DATE	06/05/93	06/06/93	06/10/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
Inorganics			
Aluminum	0.030	mg/L	C U
Antimony	0.059	mg/L	C C R
Arsenic	0.001	mg/L	C U
Barium	0.002	mg/L	C C R
Beryllium	0.000	mg/L	C C R
Cadmium	0.003	mg/L	C C R
Calcium	0.034	mg/L	C C R
Chromium	0.005	mg/L	C C R
Cobalt	0.004	mg/L	C C R
Copper	0.003	mg/L	C C R
Cyanide	0.002	mg/L	C C R
Iron	0.022	mg/L	C C R
Lead	0.001	mg/L	C C R
Magnesium	0.025	mg/L	C C R
Manganese	0.001	mg/L	C C R
Mercury	0.000	mg/L	C C R
Molybdenum	0.007	mg/L	C C R
Nickel	0.021	mg/L	C C R
Potassium	2.980	mg/L	C C R
Selenium	0.002	mg/L	C C R
Silicon	0.063	mg/L	C C R
Silver	0.004	mg/L	C C R
Sodium	0.021	mg/L	C C R
Thallium	0.001	mg/L	C C R
Vanadium	0.002	mg/L	C C R
Zinc	0.014	mg/L	C C R
Volatile Organics			
1,1,1-Trichloroethane	0.010	mg/L	C U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C C C
1,1,2-Trichloroethane	0.010	mg/L	C C C
1,1-Dichloroethane	0.010	mg/L	C C C
1,1-Dichloroethene	0.010	mg/L	C C C
1,2-Dichloroethane	0.010	mg/L	C C C
1,2-Dichloroethene	0.010	mg/L	C C C
1,2-Dichloropropane	0.010	mg/L	C C C
2-Butanone	0.010	mg/L	C C C
2-Hexanone	0.010	mg/L	C C C
4-Methyl-2-pentanone	0.010	mg/L	C C C
Acetone	0.010	mg/L	C C C
Benzene	0.010	mg/L	C C C

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE						
SAMPLE NUMBER	114811	114829	114870						
ASSOCIATED SAMPLES	114816, 114812, 114814, 114815	114821	114868						
SAMPLING DATE	06/05/93	06/06/93	06/10/93						
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>									
Bromodichloromethane	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
Bromoform	0.010	mg/L	C C	0.010	mg/L	C C	0.010	mg/L	C C
Bromomethane	0.010	mg/L	C C C	0.010	mg/L	C C	0.010	mg/L	C C
Carbon Tetrachloride	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Carbon disulfide	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Chlorobenzene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Chloroethane	0.010	mg/L	C	0.010	mg/L	C C	0.010	mg/L	C C C
Chloroform	0.010	mg/L	C	0.010	mg/L	C C	0.010	mg/L	C C C
Chloromethane	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Dibromochloromethane	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C
Ethylbenzene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Methylene chloride	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Styrene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Tetrachloroethene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Toluene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Trichloroethene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Vinyl Acetate	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Vinyl chloride	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
Xylenes, Total	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
cis-1,3-Dichloropropene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
trans-1,3-Dichloropropene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
<u>Semivolatile Organics</u>									
1,2,4-Trichlorobenzene	0.010	mg/L	C U	0.010	mg/L	C U	0.010	mg/L	C U
1,2-Dichlorobenzene	0.010	mg/L	C C	0.010	mg/L	C C	0.010	mg/L	C C C
1,3-Dichlorobenzene	0.010	mg/L	C C C	0.010	mg/L	C C	0.010	mg/L	C C C
1,4-Dichlorobenzene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2,4,5-Trichlorophenol	0.025	mg/L	C	0.025	mg/L	C	0.025	mg/L	C C C
2,4,6-Trichlorophenol	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2,4-Dichlorophenol	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2,4-Dimethylphenol	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2,4-Dinitrophenol	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2,4-Dinitrotoluene	0.025	mg/L	C	0.025	mg/L	C	0.025	mg/L	C C C
2,6-Dinitrotoluene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2-Benzyl-4-chlorophenol	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2-Chloronaphthalene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2-Chlorophenol	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2-Methylnaphthalene	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2-Methylphenol	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C
2-Nitroaniline	0.025	mg/L	C	0.025	mg/L	C	0.025	mg/L	C C C
2-Nitrophenol	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C C C

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE
SAMPLE NUMBER	114811	114829	114870
ASSOCIATED SAMPLES	114816, 114812, 114814, 114815	114821	114868
SAMPLING DATE	06/05/93	06/06/93	06/10/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>			
3,3'-Dichlorobenzidine	0.010	mg/L	C U
3-Nitroaniline	0.025	mg/L	C U
4,6-Dinitro-2-methylphenol	0.025	mg/L	C U
4-Bromophenyl phenyl ether	0.010	mg/L	C U
4-Chloro-3-methylphenol	0.010	mg/L	C U
4-Chlorophenylphenyl ether	0.010	mg/L	C U
4-Methylphenol	0.010	mg/L	C U
4-Nitroaniline	0.025	mg/L	C U
4-Nitrophenol	0.025	mg/L	C U
Acenaphthene	0.010	mg/L	C U
Acenaphthylene	0.010	mg/L	C U
Anthracene	0.010	mg/L	C U
Benzo(a)anthracene	0.010	mg/L	C U
Benzo(a)pyrene	0.010	mg/L	C U
Benzo(b)fluoranthene	0.010	mg/L	C U
Benzo(g,h,i)perylene	0.010	mg/L	C U
Benzo(k)fluoranthene	0.010	mg/L	C U
Benzoic acid	0.050	mg/L	C U
Benzyl alcohol	0.010	mg/L	C U
Butyl benzyl phthalate	0.010	mg/L	C U
Carbazole	0.010	mg/L	C U
Chrysene	0.010	mg/L	C U
Di-n-butyl phthalate	0.010	mg/L	C U
Di-n-octyl phthalate	0.010	mg/L	C U
Dibenzo(a,h)anthracene	0.010	mg/L	C U
Dibenzofuran	0.010	mg/L	C U
Diethyl phthalate	0.010	mg/L	C U
Dimethyl phthalate	0.010	mg/L	C U
Fluoranthene	0.010	mg/L	C U
Fluorene	0.010	mg/L	C U
Hexachlorobenzene	0.010	mg/L	C U
Hexachlorobutadiene	0.010	mg/L	C U
Hexachlorocyclopentadiene	0.010	mg/L	C U
Hexachloroethane	0.010	mg/L	C U
Indeno(1,2,3-cd)pyrene	0.010	mg/L	C U
Isophorone	0.010	mg/L	C U
N-Nitroso-di-n-propylamine	0.010	mg/L	C U
N-Nitrosodimethylamine	0.010	mg/L	C U
N-Nitrosodiphenylamine	0.010	mg/L	C U
Naphthalene	0.010	mg/L	C U
Nitrobenzene	0.010	mg/L	C U
Pentachlorophenol	0.025	mg/L	C U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	RINSATE	RINSATE	RINSATE
SAMPLE NUMBER	114811	114829	114870
ASSOCIATED SAMPLES	114816, 114812, 114814, 114815	114821	114868
SAMPLING DATE	06/05/93	06/06/93	06/10/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Semivolatile Organics</u>			
Phenanthrene	0.010	mg/L	C U
Phenol	0.010	mg/L	C U
Pyrene	0.010	mg/L	C C
Tributyl phosphate	0.010	mg/L	C C
bis(2-Chloroethoxy)methane	0.010	mg/L	C C
bis(2-Chloroethyl)ether	0.010	mg/L	C C
bis(2-Chloroisopropyl) ether	0.010	mg/L	C C
bis(2-Ethylhexyl) phthalate	0.010	mg/L	C C
p-Chloroaniline	0.010	mg/L	C C
<u>Pesticide Organics/PCBs</u>			
4,4'-DDD	0.000	mg/L	C C
4,4'-DDE	0.000	mg/L	C C
4,4'-DDT	0.000	mg/L	C C
Aldrin	0.000	mg/L	C C
Aroclor-1016	0.001	mg/L	C C
Aroclor-1221	0.002	mg/L	C C
Aroclor-1232	0.001	mg/L	C C
Aroclor-1242	0.001	mg/L	C C
Aroclor-1248	0.001	mg/L	C C
Aroclor-1254	0.001	mg/L	C C
Aroclor-1260	0.001	mg/L	C C
Dieldrin	0.000	mg/L	C C
Endosulfan II	0.000	mg/L	C C
Endosulfan sulfate	0.000	mg/L	C C
Endosulfan-I	0.000	mg/L	C C
Endrin	0.000	mg/L	C C
Endrin aldehyde	0.000	mg/L	C C
Endrin ketone	0.000	mg/L	C C
Heptachlor	0.000	mg/L	C C
Heptachlor epoxide	0.000	mg/L	C C
Methoxychlor	0.001	mg/L	C C
Toxaphene	0.005	mg/L	C C
alpha-BHC	0.000	mg/L	C C
alpha-Chlordane	0.000	mg/L	C C
beta-BHC	0.000	mg/L	C C
delta-BHC	0.000	mg/L	C C
gamma-BHC (Lindane)	0.000	mg/L	C C
gamma-Chlordane	0.000	mg/L	C C

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TABLE D-14
(Continued)

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PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK			
SAMPLE NUMBER	110888	110901	110988			
ASSOCIATED SAMPLES	110889	110900	110898			
SAMPLING DATE	04/22/93	04/28/93	05/04/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1,2,2-Tetrachloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1,2-Trichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1-Dichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1-Dichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloropropane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
2-Butanone	0.004	mg/L C U	0.002	mg/L C U	0.010	mg/L C U
2-Hexanone	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
4-Methyl-2-pentanone	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Acetone	0.029	mg/L C U	0.007	mg/L C U	0.010	mg/L C U
Benzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromodichloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromoform	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromomethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Carbon Tetrachloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Carbon disulfide	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chlorobenzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloroform	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Dibromochloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Ethylbenzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Methylene chloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Styrene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Tetrachloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Toluene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Trichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Vinyl Acetate	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Vinyl chloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Xylenes, Total	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
cis-1,3-Dichloropropene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
trans-1,3-Dichloropropene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK			
SAMPLE NUMBER	110993	114475	114478			
ASSOCIATED SAMPLES	110994	114474, 114746	114477, 114479			
SAMPLING DATE	05/04/93	05/02/93	05/02/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
<u>Volatile Organics</u>						
1,1,1-Trichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1,2,2-Tetrachloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1,2-Trichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1-Dichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1-Dichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloropropane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
2-Butanone	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
2-Hexanone	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
4-Methyl-2-pentanone	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Acetone	0.010	mg/L C U	0.010	mg/L C U	0.020	mg/L C U
Benzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromodichloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromoform	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromomethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Carbon Tetrachloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Carbon disulfide	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chlorobenzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloroform	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Dibromochloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Ethylbenzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Methylene chloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Styrene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Tetrachloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Toluene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Trichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Vinyl Acetate	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Vinyl chloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Xylenes, Total	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
cis-1,3-Dichloropropene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
trans-1,3-Dichloropropene	0.010	mg/L C U	NA		NA	

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	114486			114489			114499					
ASSOCIATED SAMPLES	114485, 114487			114488, 114490			114498, 114500					
SAMPLING DATE	05/03/93			05/03/93			05/04/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.004	mg/L	C	U	0.006	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	NA				NA				0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK									
SAMPLE NUMBER	114502	114509	114515									
ASSOCIATED SAMPLES	114501, 114503	114508, 114510	114514, 114516									
SAMPLING DATE	05/04/93	05/05/93	05/05/93									
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
Volatile Organics												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	114563	114571	114577
ASSOCIATED SAMPLES	114564, 114567	114570, 114572	114576, 114578
SAMPLING DATE	05/05/93	05/06/93	05/06/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	0.010	mg/L	C U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C C C
1,1,2-Trichloroethane	0.010	mg/L	C C C
1,1-Dichloroethane	0.010	mg/L	C C C
1,1-Dichloroethene	0.010	mg/L	C C C
1,2-Dichloroethane	0.010	mg/L	C C C
1,2-Dichloroethene	0.010	mg/L	C C C
1,2-Dichloropropane	0.010	mg/L	C C C
2-Butanone	0.010	mg/L	C C C
2-Hexanone	0.010	mg/L	C C C
4-Methyl-2-pentanone	0.010	mg/L	C C C
Acetone	0.010	mg/L	C C C
Benzene	0.010	mg/L	C C C
Bromodichloromethane	0.010	mg/L	C C C
Bromoform	0.010	mg/L	C C C
Bromomethane	0.010	mg/L	C C C
Carbon Tetrachloride	0.010	mg/L	C C C
Carbon disulfide	0.010	mg/L	C C C
Chlorobenzene	0.010	mg/L	C C C
Chloroethane	0.010	mg/L	C C C
Chloroform	0.010	mg/L	C C C
Chloromethane	0.010	mg/L	C C C
Dibromochloromethane	0.010	mg/L	C C C
Ethylbenzene	0.010	mg/L	C C C
Methylene chloride	0.010	mg/L	C C C
Styrene	0.010	mg/L	C C C
Tetrachloroethene	0.010	mg/L	C C C
Toluene	0.010	mg/L	C C C
Trichloroethene	0.010	mg/L	C C C
Vinyl Acetate	0.010	mg/L	C C C
Vinyl chloride	0.010	mg/L	C C C
Xylenes, Total	0.010	mg/L	C C C
cis-1,3-Dichloropropene	0.010	mg/L	C C C
trans-1,3-Dichloropropene	0.010	mg/L	C C C

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	114590	114594	114599
ASSOCIATED SAMPLES	114589, 114591	114593, 114595	114598
SAMPLING DATE	05/16/93	05/16/93	05/19/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
Volatile Organics			
1,1,1-Trichloroethane	0.010	mg/L	C U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C U
1,1,2-Trichloroethane	0.010	mg/L	C U
1,1-Dichloroethane	0.010	mg/L	C U
1,1-Dichloroethene	0.010	mg/L	C U
1,2-Dichloroethane	0.010	mg/L	C U
1,2-Dichloroethene	0.010	mg/L	C U
1,2-Dichloropropane	0.010	mg/L	C U
2-Butanone	0.010	mg/L	C U
2-Hexanone	0.010	mg/L	C U
4-Methyl-2-pentanone	0.010	mg/L	C U
Acetone	0.010	mg/L	C U
Benzene	0.010	mg/L	C U
Bromodichloromethane	0.010	mg/L	C U
Bromoform	0.010	mg/L	C U
Bromomethane	0.010	mg/L	C U
Carbon Tetrachloride	0.010	mg/L	C U
Carbon disulfide	0.010	mg/L	C U
Chlorobenzene	0.010	mg/L	C U
Chloroethane	0.010	mg/L	C U
Chloroform	0.010	mg/L	C U
Chloromethane	0.010	mg/L	C U
Dibromochloromethane	0.010	mg/L	C U
Ethylbenzene	0.010	mg/L	C U
Methylene chloride	0.010	mg/L	C U
Styrene	0.010	mg/L	C U
Tetrachloroethene	0.010	mg/L	C U
Toluene	0.010	mg/L	C U
Trichloroethene	0.010	mg/L	C U
Vinyl Acetate	0.010	mg/L	C U
Vinyl chloride	0.010	mg/L	C U
Xylenes, Total	0.010	mg/L	C U
cis-1,3-Dichloropropene	0.010	mg/L	C U
trans-1,3-Dichloropropene	0.010	mg/L	C U

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(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	114601	114606	114608
ASSOCIATED SAMPLES	114579, 114600, 114602, 114580	114605	114607
SAMPLING DATE	05/10/93	05/20/93	05/25/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	0.010	mg/L	C U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C U
1,1,2-Trichloroethane	0.010	mg/L	C U
1,1-Dichloroethane	0.010	mg/L	C U
1,1-Dichloroethene	0.010	mg/L	C U
1,2-Dichloroethane	0.010	mg/L	C U
1,2-Dichloroethene	0.010	mg/L	C U
1,2-Dichloropropane	0.010	mg/L	C U
2-Butanone	0.010	mg/L	C U
2-Hexanone	0.010	mg/L	C U
4-Methyl-2-pentanone	0.010	mg/L	C U
Acetone	0.011	mg/L	C U
Benzene	0.010	mg/L	C U
Bromodichloromethane	0.010	mg/L	C U
Bromoform	0.010	mg/L	C U
Bromomethane	0.010	mg/L	C U
Carbon Tetrachloride	0.010	mg/L	C U
Carbon disulfide	0.010	mg/L	C U
Chlorobenzene	0.010	mg/L	C U
Chloroethane	0.010	mg/L	C U
Chloroform	0.010	mg/L	C U
Chloromethane	0.010	mg/L	C U
Dibromochloromethane	0.010	mg/L	C U
Ethylbenzene	0.010	mg/L	C U
Methylene chloride	0.011	mg/L	C U
Styrene	0.010	mg/L	C U
Tetrachloroethene	0.010	mg/L	C U
Toluene	0.010	mg/L	C U
Trichloroethene	0.010	mg/L	C U
Vinyl Acetate	0.010	mg/L	C U
Vinyl chloride	0.010	mg/L	C U
Xylenes, Total	0.010	mg/L	C U
cis-1,3-Dichloropropene	0.010	mg/L	C U
trans-1,3-Dichloropropene	0.010	mg/L	C U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	114610			114625			114700					
ASSOCIATED SAMPLES	114609			114620, 114622, 114623, 114624			114673					
SAMPLING DATE	05/26/93			05/13/93			05/15/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.015	mg/L	C	U	0.009	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.011	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	114735	114738	114744
ASSOCIATED SAMPLES	114733, 114734	114737	114742, 114743, 114745
SAMPLING DATE	05/27/93	05/28/93	06/01/93
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>			
1,1,1-Trichloroethane	0.010	mg/L	C U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C U
1,1,2-Trichloroethane	0.010	mg/L	C U
1,1-Dichloroethane	0.010	mg/L	C U
1,1-Dichloroethene	0.010	mg/L	C U
1,2-Dichloroethane	0.010	mg/L	C U
1,2-Dichloroethene	0.010	mg/L	C U
1,2-Dichloropropane	0.010	mg/L	C U
2-Butanone	0.010	mg/L	C U
2-Hexanone	0.010	mg/L	C U
4-Methyl-2-pentanone	0.010	mg/L	C U
Acetone	0.003	mg/L	C UJ
Benzene	0.010	mg/L	C U
Bromodichloromethane	0.010	mg/L	C U
Bromoform	0.010	mg/L	C U
Bromomethane	0.010	mg/L	C U
Carbon Tetrachloride	0.010	mg/L	C U
Carbon disulfide	0.010	mg/L	C U
Chlorobenzene	0.010	mg/L	C U
Chloroethane	0.010	mg/L	C UJ
Chloroform	0.010	mg/L	C U
Chloromethane	0.010	mg/L	C UJ
Dibromochloromethane	0.010	mg/L	C U
Ethylbenzene	0.010	mg/L	C U
Methylene chloride	0.010	mg/L	C UJ
Styrene	0.010	mg/L	C U
Tetrachloroethene	0.010	mg/L	C UJ
Toluene	0.010	mg/L	C U
Trichloroethene	0.010	mg/L	C U
Vinyl Acetate	0.010	mg/L	C U
Vinyl chloride	0.010	mg/L	C U
Xylenes, Total	0.010	mg/L	C U
cis-1,3-Dichloropropene	0.010	mg/L	C U
trans-1,3-Dichloropropene	0.010	mg/L	C U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK				TRIP BLANK				TRIP BLANK			
SAMPLE NUMBER	114768				114783				114787			
ASSOCIATED SAMPLES	114767				114626, 114766				114784, 114785			
SAMPLING DATE	05/25/93				06/01/93				06/11/93			
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.002	mg/L	C	J	0.010	mg/L	C	UJ
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	R
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	UJ
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	UJ	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK		
SAMPLE NUMBER	114792			114817			114825		
ASSOCIATED SAMPLES	114762, 114763, 114764			114812, 114813, 114814			114821, 114822, 114823, 114824		
SAMPLING DATE	114765, 114766			114215, 114216			06/05/93		
CHEMICAL PARAMETERS	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ	RESULTS	UNITS	L VQ
<u>Volatile Organics</u>									
1,1,1-Trichloroethane	0.010	mg/L	C	0.010	mg/L	C	0.010	mg/L	C
1,1,2,2-Tetrachloroethane	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
1,1,2-Trichloroethane	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
1,1-Dichloroethane	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
1,1-Dichloroethene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
1,2-Dichloroethane	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
1,2-Dichloroethene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
2-Butanone	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
2-Hexanone	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
4-Methyl-2-pentanone	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Acetone	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Benzene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Bromodichloromethane	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Bromoform	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Bromomethane	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Carbon Tetrachloride	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Carbon disulfide	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Chlorobenzene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Chloroethane	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Chloroform	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Chloromethane	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Dibromochloromethane	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Ethylbenzene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Methylene chloride	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Styrene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Tetrachloroethene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Toluene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Trichloroethene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Vinyl Acetate	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Vinyl chloride	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
Xylenes, Total	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
cis-1,3-Dichloropropene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC
trans-1,3-Dichloropropene	0.010	mg/L	CCC	0.010	mg/L	C	0.010	mg/L	CCC

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			TRIP BLANK			TRIP BLANK					
SAMPLE NUMBER	114853			114860			114871					
ASSOCIATED SAMPLES	114836, 114837, 114838			114857, 114858, 114859, 114863			114870					
SAMPLING DATE	06/07/93			06/08/93			06/10/93					
CHEMICAL PARAMETERS	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ	RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>												
1,1,1-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U	0.010	mg/L	C	U	0.010	mg/L	C	U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK			
SAMPLE NUMBER	114873	114880	114922			
ASSOCIATED SAMPLES	114872	114879, 114881	114921			
SAMPLING DATE	06/10/93	06/14/93	06/13/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics						
1,1,1-Trichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1,2,2-Tetrachloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1,2-Trichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1,2Trichlorotrifluoroethane	0.005	mg/L C NV	NA	0.010 mg/L C U	0.010	mg/L C U
1,1-Dichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1-Dichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloropropane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-diethylbenzene	0.005	mg/L C NV	NA	0.010 mg/L C UJ	0.010	mg/L C UJ
2-Butanone	0.010	mg/L C U	0.010	mg/L C UJ	0.010	mg/L C UJ
2-Hexanone	0.010	mg/L C U	0.010	mg/L C UJ	0.010	mg/L C UJ
4-Methyl-2-pentanone	0.010	mg/L C U	0.010	mg/L C UJ	0.010	mg/L C R
Acetone	0.002	mg/L C J	0.010	mg/L C UJ	0.010	mg/L C UJ
Acetonitrile	0.100	mg/L C NV	NA	NA	NA	NA
Acrylonitrile	0.100	mg/L C NV	NA	NA	NA	NA
Benzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromodichloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromoform	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromomethane	0.010	mg/L C UJ	0.010	mg/L C U	0.010	mg/L C U
Carbon Tetrachloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Carbon disulfide	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chlorobenzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloroform	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Dibromochloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Ethylbenzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Hexane	0.010	mg/L C NV	NA	NA	NA	NA
Iodomethane	0.010	mg/L C NV	NA	NA	NA	NA
Methylene chloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Styrene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Tetrachloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Toluene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Trichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Vinyl Acetate	0.010	mg/L C UJ	0.010	mg/L C UJ	0.010	mg/L C U
Vinyl chloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Xylenes, Total	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
cis-1,3-Dichloropropene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
trans-1,3-Dichloropropene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK	TRIP BLANK	TRIP BLANK			
SAMPLE NUMBER	114925	116224	114790			
ASSOCIATED SAMPLES	114924	116220, 116221	114788, 114789			
SAMPLING DATE	06/13/93	05/05/93	06/12/93			
CHEMICAL PARAMETERS	RESULTS	UNITS L VQ	RESULTS			
Volatile Organics			RESULTS			
1,1,1-Trichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1,2,2-Tetrachloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1,2-Trichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1-Dichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,1-Dichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
1,2-Dichloropropane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
2-Butanone	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
2-Hexanone	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
4-Methyl-2-pentanone	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Acetone	0.010	mg/L C U	0.005	mg/L C U	0.010	mg/L C U
Benzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromodichloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromoform	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Bromomethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Carbon Tetrachloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Carbon disulfide	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chlorobenzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloroethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloroform	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Chloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Dibromochloromethane	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Ethylbenzene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Methylene chloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Styrene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Tetrachloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Toluene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Trichloroethene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Vinyl Acetate	NA	mg/L C U	0.010	mg/L C U	NA	mg/L C U
Vinyl chloride	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
Xylenes, Total	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
cis-1,3-Dichloropropene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U
trans-1,3-Dichloropropene	0.010	mg/L C U	0.010	mg/L C U	0.010	mg/L C U

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TABLE D-14
(Continued)

PHASE II - CHEMICAL PARAMETERS

QC TYPE	TRIP BLANK			
SAMPLE NUMBER	114919			
ASSOCIATED SAMPLES	114917, 114918			
SAMPLING DATE	06/12/93			
CHEMICAL PARAMETERS	DUPLICATE RESULTS	UNITS	L	VQ
<u>Volatile Organics</u>				
1,1,1-Trichloroethane	0.010	mg/L	C	U
1,1,2,2-Tetrachloroethane	0.010	mg/L	C	U
1,1,2-Trichloroethane	0.010	mg/L	C	U
1,1-Dichloroethane	0.010	mg/L	C	U
1,1-Dichloroethene	0.010	mg/L	C	U
1,2-Dichloroethane	0.010	mg/L	C	U
1,2-Dichloroethene	0.010	mg/L	C	U
1,2-Dichloropropane	0.010	mg/L	C	U
2-Butanone	0.010	mg/L	C	U
2-Hexanone	0.010	mg/L	C	U
4-Methyl-2-pentanone	0.010	mg/L	C	U
Acetone	0.010	mg/L	C	U
Benzene	0.010	mg/L	C	U
Bromodichloromethane	0.010	mg/L	C	U
Bromoform	0.010	mg/L	C	U
Bromomethane	0.010	mg/L	C	U
Carbon Tetrachloride	0.010	mg/L	C	U
Carbon disulfide	0.010	mg/L	C	U
Chlorobenzene	0.010	mg/L	C	U
Chloroethane	0.010	mg/L	C	U
Chloroform	0.010	mg/L	C	U
Chloromethane	0.010	mg/L	C	U
Dibromochloromethane	0.010	mg/L	C	U
Ethylbenzene	0.010	mg/L	C	U
Methylene chloride	0.010	mg/L	C	U
Styrene	0.010	mg/L	C	U
Tetrachloroethene	0.010	mg/L	C	U
Toluene	0.010	mg/L	C	U
Trichloroethene	0.010	mg/L	C	U
Vinyl Acetate	0.010	mg/L	C	U
Vinyl chloride	0.010	mg/L	C	U
Xylenes, Total	0.010	mg/L	C	U
cis-1,3-Dichloropropene	0.010	mg/L	C	U
trans-1,3-Dichloropropene	0.010	mg/L	C	U

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TABLE D-15
LIME SLUDGE PONDS
ON-SITE LABORATORY SCREENING RESULTS
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SURFACE WATER SCREENING SAMPLES

Location	Sample No.	Description	Date Collected	Total Uranium ($\mu\text{g/L}$)
LSP-SW-01	114596	Duplicate of 114597	5/16/93	0.1
LSP-SW-01	114597	Surface Water	5/16/93	0.1

GROUNDWATER SCREENING SAMPLES

Location	Sample No.	Description	Date Collected	Total Uranium ($\mu\text{g/L}$)
1039	111991	Existing Monitoring Well	4/28/93	1.0
1041	116329	Existing Monitoring Well	5/5/93	9.4
1041	116330	Existing Monitoring Well	5/5/93	8.7
1042	110890	Existing Monitoring Well	4/22/93	29
1934	114621	Existing Monitoring Well	5/13/93	5.7
1937	114618	Existing Monitoring Well	5/11/93	5.1
1940	114786	New Monitoring Well	6/11/93	6.6
2042	110991	Existing Monitoring Well	5/4/93	3.4
2042	110992	Existing Monitoring Well	5/4/93	3.5
2042	110996	Existing Monitoring Well	5/4/93	3.7
2042	110997	Existing Monitoring Well	5/4/93	3.8
2935	114923	New Monitoring well	6/13/93	2.8
2936	114791	New Monitoring Well	6/12/93	4.4
2936	114920	Duplicate of 114791	6/12/93	4.2
2939	114926	New Monitoring Well	6/13/93	1.9
K-65 TR ^a	114770	K-65 Trench	5/26/93	77

SURFACE SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft.) ^b	Date Collected	Total Uranium (mg/kg)
LSP-TR-01	114584	0.0-0.5	5/11/93	38
LSP-TR-02	114585	0.0-0.5	5/11/93	19

See footnotes at end of table

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TABLE D-15
(Continued)

SURFACE SCREENING SAMPLES (Continued)

Location	Sample No.	Sample Interval (ft.) ^b	Date Collected	Total Uranium (mg/kg)
LSP-SS-03	114470	0.0-0.5	5/1/93	<11
LSP-SS-04	114483	0.0-0.5	5/2/93	<11

SUBSURFACE SOILS SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft.)	Date Collected	Total Uranium (mg/kg)	Total Thorium (mg/kg)	Radium 226/228 (pCi/g)
LSP-SB-01	114565	0.5-1.0	5/5/93	<11	- ^c	-
LSP-SB-02	114513	0.5-1.0	5/5/93	<11	-	-
LSP-SS-03	114471	0.5-1.0	5/1/93	<11	-	-
LSP-SS-04	114484	0.5-1.0	5/2/93	<11	-	-
LSP-SB-04	114573	0.5-1.0	5/6/93	<11	-	-
LSP-SB-05	114603	0.5-1.0	5/10/93	<11	-	-
1934	111182	4.0-6.0	5/1/93	<11	-	-
1937	111142	2.0-4.0	4/28/93	<11	-	-
1940	114674	6.0-6.5	5/15/93	<11	-	-
2935	110789	2.0-4.0	4/29/93	<11	-	-
2936	110942	4.0-6.0	4/29/93	<11	-	-
2939	110828	2.0-4.0	5/15/93	<11	-	-
K-65 TR ^a	114774	0.0-2.0	6/5/93	13	33	1.0/0.75
K-65 TR ^a	114777	0.0-6.0	6/7/93	210	301	76/58

GAMMA SCREENING SAMPLES

Location	Sample No.	Sample Interval (ft.)	Date Collected	Gamma Activity (pCi/g)
LSP-TR-02	114592	0.0-0.5	5/16/93	<29

^aSample is from a trench excavated parallel to the K-65 Slurry Line.

^bSample interval is depth, in feet, below the ground surface.

^cSample not analyzed for thorium or radium.

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TABLE D-16A
LIME SLUDGE PONDS
CIS SURFACE SOIL ON-SITE ANALYTICAL DATA
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Qualifier ^a
FMP-SS-23-167	06-NOV-86	0/0.5	CS-137	0.90	NA	<
			RA-226	6.40	±0.80	
			RU-106	3.40	NA	<
			TH-232	7.50	±0.80	
			U-238	13.80	±5.10	
FMP-SS-46-187	13-FEB-87	0/0.5	CS-137	0.3	NA	<
			K-40	4.4	2.6	
			RA-226	0.7	NA	<
			RU-106	6.9	NA	<
			TH-232	1.2	NA	<
			U-238	30.6	4.3	
FMP-SS-46-188	13-FEB-87	0/0.5	CS-137	0.1	NA	<
			K-40	4	2	
			RA-226	1.3	NA	<
			RU-106	7.7	NA	<
			TH-232	0.2	NA	<
			U-238	3	NA	<
FMP-SS-46-189	13-FEB-87	00.5	CS-137	1.1	NA	<
			K-40	13.4	4.2	
			RA-226	0.7	0.3	
			RU-106	0.6	NA	<
			TH-232	0.9	0.4	
			U-238	5.8	2	
FMP-SS-46-537	12-MAY-87	0/0.5	CS-137	0.6	NA	<
			K-40	27	NA	<
			RA-226	1.4	0.5	
			RU-106	1.2	NA	<
			TH-232	1.5	0.8	
			U-238	15.6	4.8	

See footnotes at end of table

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FEMP-OU02-4 DRAFT
February 18, 1994

TABLE D-16A
(Continued)

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Qualifier ^a
FMP-SS-46-622	12-MAY-87	0/0.5	CS-137	1.10	± .50	
			RA-226	1.30	± .70	
			RU-106	4.50	NA	<
			TH-232	2.70	± 0.60	
			U-238	40.70	± 6.20	
FMP-SL-23-128	30-APR-87	0.5/1	CS-137	0.20	NA	<
			RA-226	0.90	± .20	
			RU-106	7.40	NA	<
			TH-232	1.40	± 0.40	
			U-238	14.10	NA	<
FMP-SL-23-129	30-APR-87	1/1	CS-137	.60	NA	<
			RA-226	0.70	NA	<
			RU-106	5.40	NA	<
			TH-232	1.10	± 0.30	
			U-238	2.50	NA	<
FMP-SL-23-130	30-APR-87	0.50/1.50	CS-137	1.00	NA	<
			RA-226	4.30	± .50	
			RU-106	4.30	NA	<
			TH-232	0.60	± 0.40	
			U-238	4.50	± 3.00	
FMP-SL-23-131	30-APR-87	1/1.5	CS-137	0.40	NA	<
			RA-226	0.90	± .50	
			RU-106	3.70	NA	<
			TH-232	1.00	± 0.30	
			U-238	6.00	NA	<
FMP-SL-23-191	30-APR-87	0.5/1	CS-137	1.3	NA	<
			K-40	7.6	3.3	
			RA-226	1.6	0.4	
			RU-106	4.2	NA	<
			TH-232	2.2	0.4	
			U-238	8.7	NA	<
FMP-SL-23-191D	30-APR-87	0.5/1	CS-137	0.9	NA	<
			K-40	0.1	4	
			RA-226	1.1	0.4	

See footnotes at end of table

TABLE D-16A
(Continued)

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Qualifier ^a
FMP-SL-23-191D (Continued)	30-APR-87	0.5/1	RU-106	10	NA	<
			TH-232	1.9	0.5	
			U-238	14.5	NA	<
FMP-SL-23-192	30-APR-87	1/1.5	CS-137	0.9	NA	<
			RA-226	0.9	0.3	
			RU-106	5.8	NA	<
			TH-232	1.1	0.4	
			U-238	11.5	NA	<
FMP-SL-23-195	30-APR-87	0.5/1	CS-137	0.4	NA	<
			K-40	11	4.1	
			RA-226	1.4	0.3	
			RU-106	5.7	NA	<
			TH-232	0.3	NA	<
			U-238	14	NA	<
FMP-SS-23-001	06-NOV-86	0/0.5	CS-137	1.1	NA	<
			K-40	9.1	3.6	
			RA-226	3.8	0.6	
			RU-106	0.7	NA	<
			TH-232	1.7	1.2	
			U-238	8.2	7.6	
FMP-SS-23-003	06-NOV-86	0/0.5	CS-137	1	NA	<
			K-40	19	6.2	
			RA-226	1.4	0.3	
			RU-106	1	NA	<
			TH-232	2.8	1.3	
			U-238	14.2	5.3	
FMP-SS-23-006	06-NOV-86	0/0.5	CS-137	1.1	NA	<
			K-40	11.5	4.4	
			RA-226	0.8	0.3	
			RU-106	0.8	NA	<
			TH-232	0.4	NA	<
			U-238	4	3	

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See footnotes at end of table

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TABLE D-16A
(Continued)

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Qualifier ^a
FMP-SS-23-010	06-NOV-86	0/0.5	CS-137	0.7	NA	<
			K-40	8.6	3.6	
			RA-226	2.6	0.5	
			RU-106	11.6	NA	<
			TH-232	1.6	0.8	
			U-238	11.5	5.5	
FMP-SS-23-010QC	06-NOV-86	0/0.5	CS-137	0.8	0.3	
			K-40	11.5	4.1	
			RA-226	2	0.6	
			RU-106	0.7	NA	<
			TH-232	1.4	0.8	
			U-238	14.6	5.1	
FMP-SS-23-011	06-NOV-86	0/0.5	CS-137	1.3	NA	<
			K-40	10.8	2	
			RA-226	4.7	0.6	
			RU-106	9.5	NA	<
			TH-232	0.8	NA	<
			U-238	8.8	4.1	
FMP-SS-23-012	06-NOV-86	0/0.5	CS-137	1.3	NA	<
			K-40	12.1	6.2	
			RA-226	19.8	1.3	
			RU-106	16.1	NA	<
			TH-232	4.6	1.1	
			U-238	12.7	8	
FMP-SS-23-012D	06-NOV-86	0/0.5	CS-137	0.9	0.7	
			K-40	8	NA	<
			RA-226	19	1.2	
			RU-106	6.9	NA	<
			TH-232	2.9	1.5	
			U-238	11	NA	<
FMP-SS-23-013	06-NOV-86	0/0.5	CS-137	1.8	0.5	
			K-40	8.3	6	
			RA-226	6.7	0.9	
			RU-106	8	NA	<

See footnotes at end of table

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TABLE D-16A
(Continued)

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Qualifer ^a
FMP-SS-23-013	06-NOV-86	0/0.5	TH-232	9.2	3.3	
			U-238	19.1	7.4	
FMP-SS-23-014	06-NOV-86	0/0.5	CS-137	0.5	0.3	
			K-40	8.1	3.1	
			RA-226	4.4	0.9	
			RU-106	10.6	NA	<
			TH-232	2.2	0.8	
			U-238	12.4	3.3	
			CS-137	0.4	0.2	
FMP-SS-23-164	06-APR-87	0/0.5	K-40	10.9	4	
			RA-226	4.3	0.7	
			RU-106	0.6	NA	<
			TH-232	2.4	NA	<
			U-238	12.1	NA	<
			CS-137	0.3	NA	<
			K-40	8.1	4.2	
FMP-SS-23-165	06-APR-87	0/0.5	RA-226	1.8	0.5	
			RU-106	5.7	NA	<
			TH-232	0.7	0.6	
			U-238	3.4	2.4	
			CS-137	0.8	0.5	
			K-40	10.6	3.8	
			RA-226	11	0.6	
FMP-SS-23-166	06-APR-87	0/0.5	RU-106	5.4	NA	<
			TH-232	3	0.9	
			U-238	6.3	2.6	
			CS-137	0.7	NA	<
			K-40	14.7	6	
			RA-226	3.3	0.8	
			RU-106	5.5	NA	<
FMP-SS-23-189	30-APR-87	0/0.5	TH-232	4.1	0.8	
			U-238	11.4	3.4	

See footnotes at end of table

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FEMP-OU02-4 DRAFT
February 18, 1994TABLE D-16A
(Continued)

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Qualifier ^a
FMP-SS-23-190QC	30-APR-87	0/0.5	CS-137	1.2	NA	<
			K-40	12	4.7	
			RA-226	2.4	0.6	
			RU-106	3.7	NA	<
			TH-232	3.1	0.5	
			U-238	7.3	5	
FMP-SS-23-193	30-APR-87	0/0.5	CS-137	0.9	NA	<
			K-40	1.4	NA	<
			RA-226	1.6	0.5	
			RU-106	9.4	NA	<
			TH-232	3.2	0.7	
			U-238	13	6.2	
FMP-SS-23-194	30-APR-87	0/0.5	CS-137	1.9	NA	<
			K-40	4.5	3.2	
			RA-226	3.3	0.7	
			RU-106	11.5	NA	<
			TH-232	5.9	0.7	
			U-238	29.3	NA	<
FMP-SS-23-197	30-APR-87	0/0.5	CS-137	0.5	NA	<
			K-40	8.5	3.4	
			RA-226	1.4	0.3	
			RU-106	7	NA	<
			TH-232	0.7	0.3	
			U-238	10.6	5.6	
FMP-SS-46-540	12-MAY-87	0/0.16	CS-137	1.1	0.5	
			K-40	15.8	6.6	
			RA-226	7.8	1	
			RU-106	13.9	NA	<
			TH-232	1.2	NA	<
			U-238	15.7	6.4	
FMP-SS-46-541	12-MAY-87	0.16/0.5	CS-137	0.6	NA	<
			K-40	21	6.7	
			RA-226	6.1	0.9	
			RU-106	7.8	NA	<

See footnotes at end of table

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TABLE D-16A
(Continued)

FEMP ID#	Date	Beginning/Ending Depth (ft.)	Isotope	Activity (pCi/g)	Uncertainty	Qualifer ^a
FMP-SS-46-541 (Continued)	12-MAY-87	0.16/0.5	TH-232	1.8	NA	<
			U-238	31.2	NA	<

^aLaboratory Qualifiers, no data validation was performed on screening data.

^bNA = Not applicable

^c< = Less than

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TABLE D-16B

LIME SLUDGE PONDS
FEMP LABORATORY SCREENING DATA RESULTS
ACTIVITY CONCENTRATIONS OF CIS PROFILE SAMPLES
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty Value (pCi/g)
BOREHOLE 47-01				
0 - 0.50	radium-226		0.70	0.50
0 - 0.50	thorium-232		0.90	0.30
0 - 0.50	uranium-238		5.80	2.20
0.50 - 1.80	radium-226	< ^b	0.60	NA ^c
0.50 - 1.80	thorium-232	<	2.40	NA
0.50 - 1.80	uranium-238		2.30	1.90
1.80 - 3.50	radium-226	<	1.30	NA
1.80 - 3.50	thorium-232	<	0.40	NA
1.80 - 3.50	uranium-238	<	8.30	NA
BOREHOLE 47-02				
0.50 - 2.20	radium-226	<	0.60	NA
0.50 - 2.20	thorium-232		0.50	0.20
0.50 - 2.20	uranium-238	<	1.70	1.10
2.20 - 3.80	radium-226	<	0.50	NA
2.20 - 3.80	thorium-232	<	0.40	NA
2.20 - 3.80	uranium-238	<	4.30	NA
3.80 - 5.50	radium-226	<	0.70	NA
3.80 - 5.50	thorium-232	<	0.30	NA
3.80 - 5.50	uranium-238		2.80	1.60
BOREHOLE 47-03				
2.00 - 3.60	radium-226	<	1.30	NA
2.00 - 3.60	thorium-232		0.50	0.20
2.00 - 3.60	uranium-238	<	6.80	NA
3.60 - 5.30	radium-226	<	0.10	NA
3.60 - 5.30	thorium-232	<	1.30	NA
3.60 - 5.30	uranium-238	<	3.80	NA
5.30 - 7.00	radium-226		0.90	0.40
5.30 - 7.00	thorium-232	<	1.40	NA
5.30 - 7.00	uranium-238		6.90	5.20
BOREHOLE 48-01				
2.00 - 3.00	radium-226	<	1.70	NA
2.00 - 3.00	thorium-232		0.60	0.20
2.00 - 3.00	uranium-238		6.70	2.80

See footnotes at end of table

February 18, 1994

TABLE D-16B
(Continued)

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Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty Value (pCi/g)
BOREHOLE 48-01 (Continued)				
3.00 - 4.00	radium-226	<	1.20	NA
3.00 - 4.00	thorium-232	<	0.50	NA
3.00 - 4.00	uranium-238	<	7.40	NA
4.00 - 5.00	radium-226	<	1.30	NA
4.00 - 5.00	thorium-232	<	0.20	NA
4.00 - 5.00	uranium-238		2.80	1.40
5.00 - 6.00	radium-226	<	0.60	NA
5.00 - 6.00	thorium-232	<	0.20	NA
5.00 - 6.00	uranium-238	<	4.20	NA
6.00 - 7.00	radium-226	<	1.40	NA
6.00 - 7.00	thorium-232	<	0.30	NA
6.00 - 7.00	uranium-238		4.10	1.40
7.00 - 8.00	radium-226	<	1.30	NA
7.00 - 8.00	thorium-232	<	1.50	NA
7.00 - 8.00	uranium-238	<	5.60	NA
BOREHOLE 48-02				
0 - 2.00	radium-226	<	0.20	NA
0 - 2.00	thorium-232	<	0.40	2.70
0 - 2.00	uranium-238		4.00	NA
2.00 - 3.00	radium-226	<	1.60	NA
2.00 - 3.00	thorium-232	<	2.60	NA
2.00 - 3.00	uranium-238	<	4.80	NA
3.00 - 4.00	radium-226	<	0.10	NA
3.00 - 4.00	thorium-232	<	0.30	NA
3.00 - 4.00	uranium-238		2.70	1.20
4.00 - 5.00	radium-226	<	0.10	NA
4.00 - 5.00	thorium-232	<	0.30	NA
4.00 - 5.00	uranium-238	<	11.20	NA
5.00 - 6.00	radium-226	<	2.20	NA
5.00 - 6.00	thorium-232	<	0.40	NA
5.00 - 6.00	uranium-238	<	5.50	NA
6.00 - 7.00	radium-226	<	1.50	NA
6.00 - 7.00	thorium-232	<	1.50	NA
6.00 - 7.00	uranium-238		2.00	1.60
7.00 - 8.00	radium-226	<	1.40	NA
7.00 - 8.00	thorium-232		0.40	0.20
7.00 - 8.00	uranium-238	<	12.00	NA

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See footnotes at end of table

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TABLE D-16B
(Continued)

Begin - End Depth (feet)	Radionuclide	Qualifier ^a	Activity Concentrations (pCi/g)	Uncertainty Value (pCi/g)
BOREHOLE 48-02				
8.00 - 9.00	radium-226	<	0.20	NA
8.00 - 9.00	thorium-232	<	1.10	NA
8.00 - 9.00	uranium-238	<	1.80	NA
BOREHOLE 48-03				
0 - 1.00	radium-226	<	0.20	NA
0 - 1.00	thorium-232	<	0.40	NA
0 - 1.00	uranium-238		3.20	1.60
1.00 - 2.00	radium-226	<	0.10	NA
1.00 - 2.00	thorium-232	<	0.40	NA
1.00 - 2.00	uranium-238	<	10.10	0.50
2.00 - 3.00	radium-226		1.10	NA
2.00 - 3.00	thorium-232	<	0.70	NA
2.00 - 3.00	uranium-238	<	9.80	NA
3.00 - 4.00	radium-226		2.00	0.80
3.00 - 4.00	thorium-232	<	0.60	NA
3.00 - 4.00	uranium-238	<	13.40	NA
4.00 - 5.00	radium-226	<	1.00	NA
4.00 - 5.00	thorium-232	<	0.40	NA
4.00 - 5.00	uranium-238	<	5.60	NA
5.00 - 6.00	radium-226	<	0.70	NA
5.00 - 6.00	thorium-232	<	0.40	NA
5.00 - 6.00	uranium-238		4.70	3.50
6.00 - 7.00	radium-226	<	0.50	NA
6.00 - 7.00	thorium-232		0.30	0.20
6.00 - 7.00	uranium-238	<	7.20	NA
7.00 - 8.00	radium-226	<	0.90	NA
7.00 - 8.00	thorium-232	<	0.20	NA
7.00 - 8.00	uranium-238	<	6.90	NA
8.00 - 9.00	radium-226	<	1.00	NA
8.00 - 9.00	thorium-232	<	2.30	NA
8.00 - 9.00	uranium-238		4.40	1.30

^aLaboratory Qualifiers, no data validation was performed on screening data.^b< = Less than^cNA = Not applicable

TABLE D-16C

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LIME SLUDGE PONDS
CIS FIDLER SURFACE READINGS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Coordinates	North	East	Reading (CPM)
	480453.44	1379515.88	18912.00
	480453.44	1379515.88	19355.00
	480503.44	1379517.25	17700.00
	480503.44	1379517.25	17868.00
	480453.28	1379522.13	31414.00
	480459.53	1379522.25	39736.00
	480465.78	1379522.50	43166.00
	480472.00	1379522.63	36810.00
	480703.34	1379522.75	21740.00
	480478.25	1379522.88	39474.00
	480478.25	1379522.88	37501.00
	480484.50	1379523.00	30151.00
	480490.75	1379523.13	33520.00
	480497.00	1379523.38	31915.00
	480503.25	1379523.50	28302.00
	480753.34	1379524.13	26343.00
	480453.09	1379528.38	29127.00
	480459.34	1379528.50	29851.00
	480465.59	1379528.75	30457.00
	480471.84	1379528.88	32086.00
	480478.09	1379529.00	25424.00
	480478.09	1379529.00	25752.00
	480484.34	1379529.25	31747.00
	480490.59	1379529.38	36364.00
	480496.84	1379529.65	33520.00
	480503.09	1379529.75	24001.00

0984

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TABLE D-16C
(Continued)

Coordinates		
North	East	Reading (CPM)
480452.94	1379534.63	29279.00
480459.19	1379534.75	31915.00
480465.44	1379534.00	25532.00
480471.69	1379534.13	25532.00
480477.91	1379534.25	21353.00
480477.91	1379534.25	25424.00
480484.16	1379535.50	28170.00
480490.41	1379535.63	33520.00
480496.66	1379535.88	26906.00
480502.91	1379536.00	28719.00
480503.09	1379529.75	24001.00
480427.78	1379540.25	27273.00
480434.00	1379540.38	11195.00
480440.25	1379540.50	32619.00
480446.50	1379540.75	26667.00
480452.75	1379540.88	30457.00
480477.75	1379541.50	28986.00
480484.00	1379541.75	29279.00
480490.25	1379541.88	29815.00
480496.50	1379542.13	29412.00
480502.75	1379542.25	31589.00
480427.59	1379546.38	28170.00
480433.84	1379546.63	14320.00
480440.09	1379546.75	35098.00
480446.34	1379547.00	26201.00
480452.59	1379547.13	31589.00
480427.44	1379552.63	32269.00
480433.69	1379552.88	21202.00
480439.91	1379553.00	37736.00

0985

TABLE D-16C
(Continued)**-5173**

Coordinates		Reading (CPM)
North	East	
480446.16	1379553.25	30938.00
480452.41	1379553.38	31058.00
480427.25	1379558.88	35939.00
480433.50	1379559.13	16043.00
480439.75	1379559.25	26906.00
480446.00	1379559.50	36364.00
480452.25	1379559.63	29127.00
480427.09	1379565.13	33718.00
480433.34	1379565.38	28302.00
480439.59	1379565.50	29412.00
480445.81	1379565.75	30613.00
480452.06	1379565.88	28302.00
480452.06	1379565.88	21284.00
480502.06	1379567.25	16077.00
480552.03	1379568.63	15791.00
480420.66	1379571.25	42868.00
480751.97	1379574.13	22923.00
480751.97	1379574.13	19481.00
480758.22	1379574.25	29279.00
480764.47	1379574.38	33718.00
480770.72	1379574.63	32086.00
480420.50	1379577.50	43796.00
480426.75	1379577.63	28170.00
480751.78	1379580.38	20690.00
480758.03	1379580.50	21661.00
480764.28	1378580.63	30457.00
480770.53	1379580.88	33718.00
480420.31	1379583.75	45802.00
480426.56	1379583.88	40817.00

0986

TABLE D-16C
(Continued)

Coordinates		
North	East	Reading (CPM)
480751.63	1379586.63	22999.00
480757.88	1379586.75	18692.00
480764.13	1379586.88	35295.00
480770.38	1379581.13	48001.00
480420.16	1379590.00	69450.00
480426.41	1379590.13	42254.00
480751.44	1379592.88	17342.00
480757.69	1379593.00	19293.00
480763.94	1379593.13	27038.00
480770.19	1379593.38	35939.00
480419.97	1379596.25	51725.00
480426.22	1379596.38	31915.00
480751.28	1379599.00	20067.00
480757.53	1379599.25	21661.00
480763.78	1379599.38	26432.00
480770.03	1379599.63	42868.00
480426.06	1379602.63	25211.00
480425.72	1379615.13	21202.00
480450.72	1379615.88	20493.00
480500.69	1379617.25	15429.00
480550.66	1379618.63	18766.00
480750.59	1379624.00	44773.00
480424.34	1379665.13	29412.00
480424.34	1379665.13	37501.00
480430.59	1379665.25	28572.00
480436.84	1379665.50	31099.00
480443.09	1379665.63	29412.00
480449.34	1379665.88	29557.00
480449.34	1379665.88	21582.00

TABLE D-16C
(Continued)

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Coordinates	North	East	Reading (CPM)
	480499.31	1379667.25	16558.00
	480549.31	1379668.50	19585.00
	480424.19	1379671.38	32978.00
	480424.19	1379671.38	32269.00
	480430.44	1379671.50	25105.00
	480436.69	1379671.75	29127.00
	480442.91	1379671.88	37251.00
	480449.16	1379672.13	29557.00
	480424.00	1379677.63	41380.00
	480424.00	1379677.63	47245.00
	480430.25	1379677.75	29127.00
	480436.50	1379678.00	27918.00
	480442.75	1379678.13	33905.00
	480449.00	1379678.38	33718.00
	480373.84	1379682.50	23167.00
	480380.09	1379682.63	26432.00
	480386.34	1379682.88	22141.00
	480392.59	1379683.00	27273.00
	480423.84	1379683.88	377360.00
	480423.84	1379683.88	303040.00
	480430.09	1379684.00	26316.00
	480436.34	1379684.25	36810.00
	480442.56	1379684.38	30770.00
	480448.81	1379684.63	29851.00
	480423.66	1379690.13	112580.00
	480423.66	1379690.13	93170.00
	480423.66	1379690.13	89830.00
	480429.91	1379690.25	27038.00
	480429.91	1379690.25	26906.00

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TABLE D-16C
(Continued)

5173

Coordinates	North	East	Reading (CPM)
	480436.16	1379690.50	37736.00
	480436.16	1379690.50	28048.00
	480442.41	1379690.63	23716.00
	480442.41	1379690.63	26316.00
	480448.66	13799690.88	31414.00
	480448.66	1379690.88	35504.00
	480423.50	1379696.38	132750.00
	480429.75	1379696.50	26087.00
	480436.00	1379696.75	32269.00
	480442.25	1379696.88	31589.00
	480448.47	1379697.13	32978.00
	480423.31	1379702.63	143890.00
	480429.56	1379702.75	30613.00
	480435.81	1379703.00	26667.00
	480442.06	1379703.13	32978.00
	480448.31	1379703.25	34683.00
	480423.16	1379708.88	81530.00
	480429.41	1379709.00	26786.00
	480435.66	1379709.25	33334.00
	480441.91	1379709.38	31414.00
	480448.16	1379709.50	33718.00
	480422.97	1379715.13	149260.00
	480429.22	1379715.25	21439.00
	480435.47	1379715.50	24490.00
	480441.72	1379715.63	32978.00
	480447.97	1379715.75	27650.00
	480447.97	1379715.75	28749.00
	480497.94	1379717.13	16677.00
	480547.94	1379718.50	16777.00

TABLE D-16C
(Continued)

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Coordinates			
North	East	Reading (CPM)	
480422.81	1379721.38	105080.00	
480429.06	1379721.50	23077.00	
480435.31	1379721.75	25317.00	
480441.56	1379721.88	32619.00	
480447.81	1379722.00	29279.00	
480422.63	1379727.63	108500.00	
480428.88	1379727.75	23623.00	
480435.13	1379728.00	25317.00	
480441.38	1379728.13	31915.00	
480447.63	1379728.25	33520.00	
480422.47	1379733.88	94640.00	
480428.72	1379734.00	28572.00	
480434.97	1379734.25	24391.00	
480441.22	1379734.38	28719.00	
480447.47	1379734.50	31251.00	
480422.28	1379740.13	76830.00	
480428.53	1379740.25	26087.00	
480434.78	1379740.50	28170.00	
480441.03	1379740.63	27788.00	
480447.28	1379740.75	30613.00	
480422.13	1379746.38	42554.00	
480421.97	1379752.63	36364.00	
480421.78	1379758.88	38710.00	
480421.63	1379765.13	41667.00	
480446.59	1379765.75	27317.00	
480496.59	1379767.13	17842.00	
480421.44	1379771.38	32787.00	
480421.28	1379777.63	37736.00	
480421.09	1379783.88	31251.00	

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TABLE D-16C
(Continued)

Coordinates		Reading (CPM)
North	East	
480420.94	1379790.13	37278.00
480420.75	1379796.38	58824.00
480420.59	1379802.63	19428.00
480770.63	1379805.88	42554.00
480420.41	1379808.88	47620.00

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TABLE D-16D
**LIME SLUDGE POND
CIS EXPOSURE RATE MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

Coordinates		
North	East	Reading (microR/HR)
480585.66	1379619.50	36.00
480585.66	1379619.50	31.22
480503.44	1379517.25	27.53
480497.94	1379717.13	27.29

0992

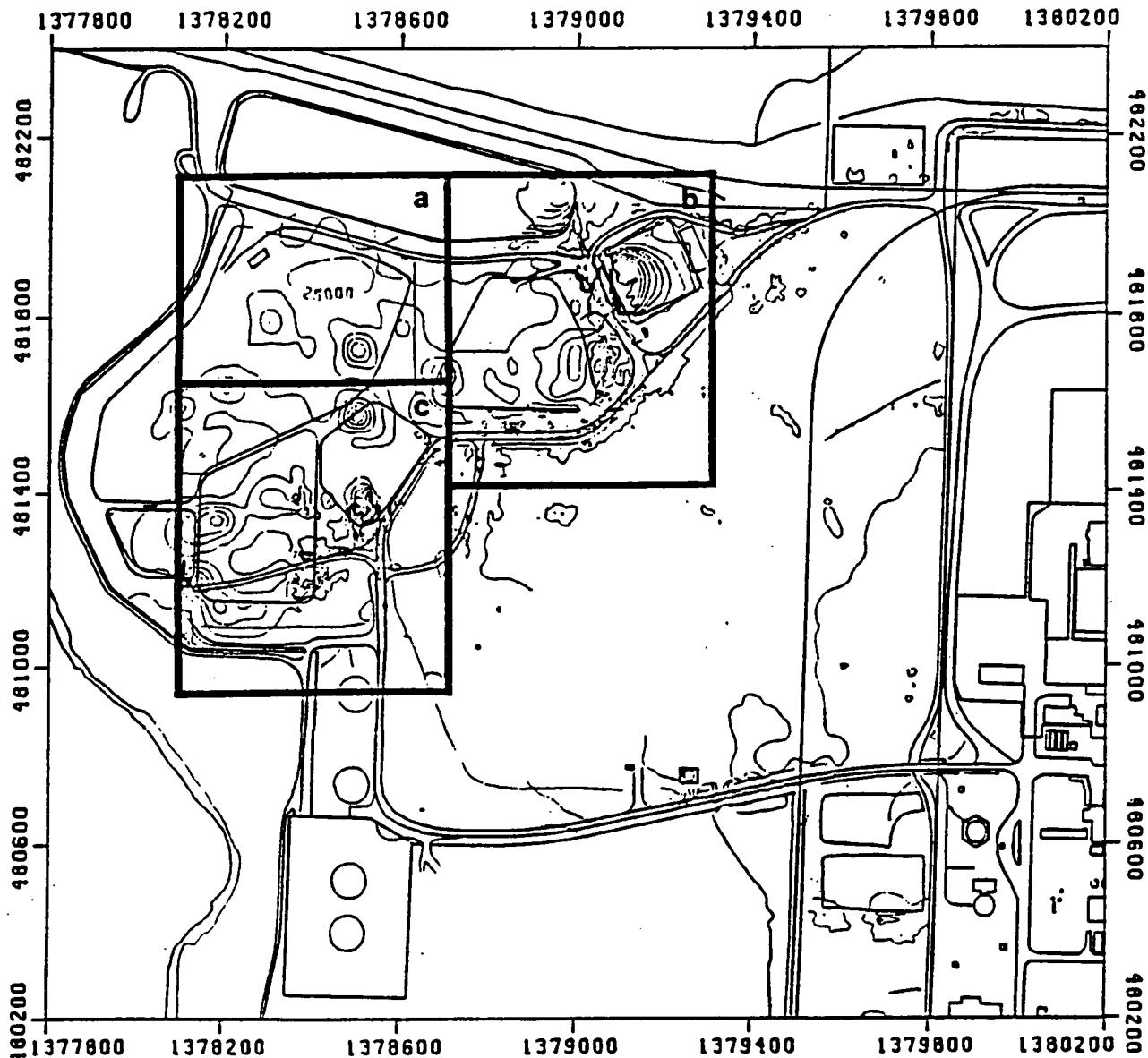
TABLE D-16E
LIME SLUDGE PONDS
CIS BETA GAMMA DOSE RATE MEASUREMENTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Coordinates		Reading (microR/HR)
North	East	
480753.34	1379524.13	0.11
480703.34	1379522.75	0.07
480653.38	1379521.38	0.06
480603.38	1379520.00	0.06
480553.41	1379518.63	0.07
480751.97	1379574.13	0.11
480552.03	1379568.63	0.06
480750.59	1379624.00	0.17
480550.66	1379618.63	0.06
480749.22	1379674.00	0.07
480549.31	1379668.50	0.05
480747.84	1379724.00	0.09
480547.94	1379718.50	0.05
480746.50	1379774.00	0.04
480546.56	1379768.50	0.05
480503.44	1379517.25	0.04
480453.44	1379515.88	0.04
480403.47	1379514.50	0.05
480502.06	1379567.25	0.03
480452.06	1379565.88	0.05
480402.09	1379564.50	0.05
480500.69	1379617.25	0.05
480450.72	1379615.88	0.05
480400.72	1379614.50	0.07
480499.31	1379667.25	0.03
480449.34	1379665.88	0.06
480497.94	1379717.13	0.03
480447.97	1379715.75	0.06
480496.59	1379767.13	0.04
480446.59	1379765.75	0.06

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FIGURE D-16A
LIME SLUDGE PONDS
CIS FIDLER MEASUREMENT CONTOURS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour intervals at 50,000 and 75,000 CPM)

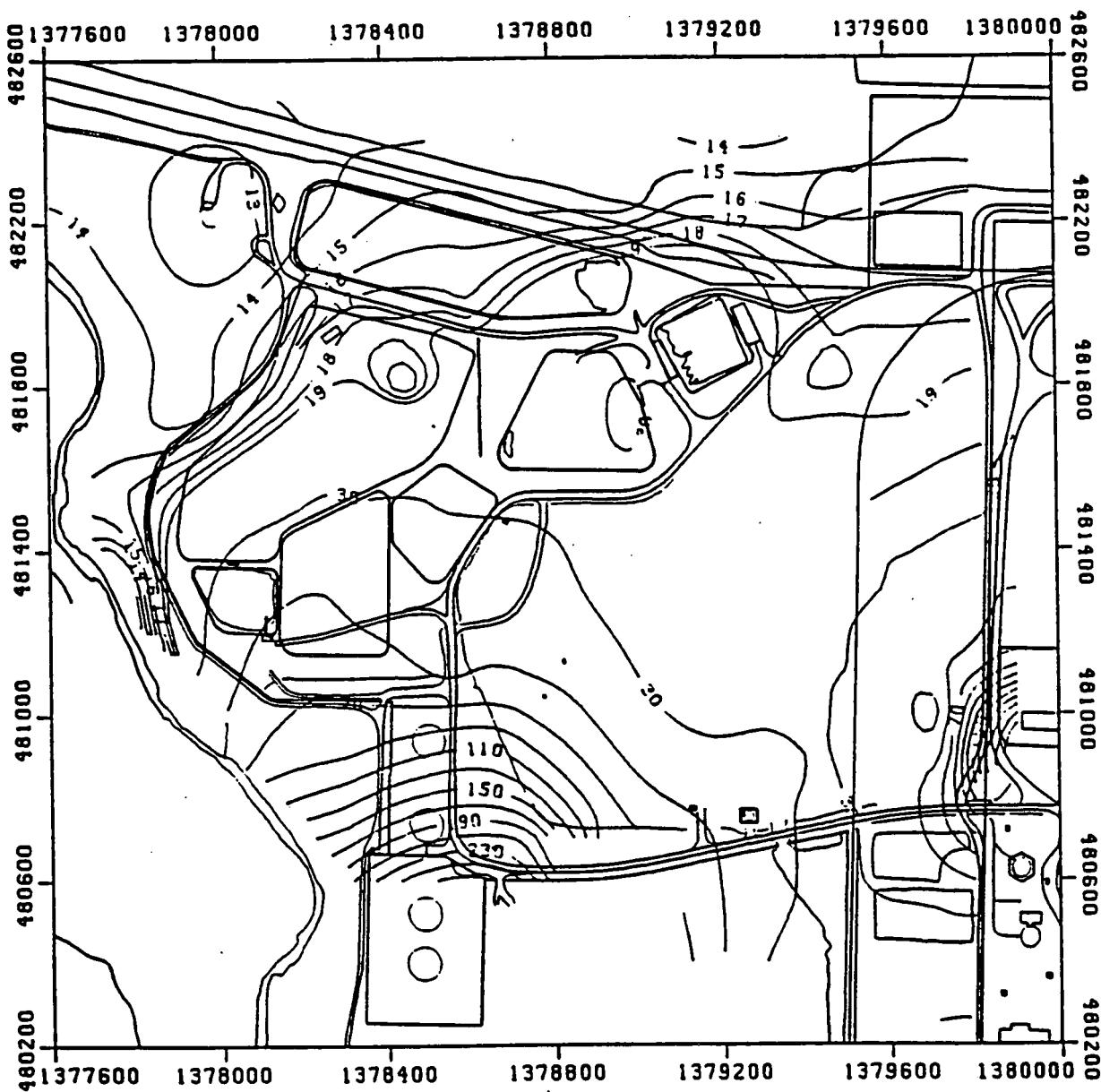


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FIGURE D-16B
LIME SLUDGE PONDS
CIS EXPOSURE RATE CONTOURS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour intervals at 1.0 and 20.0 microR/hr)

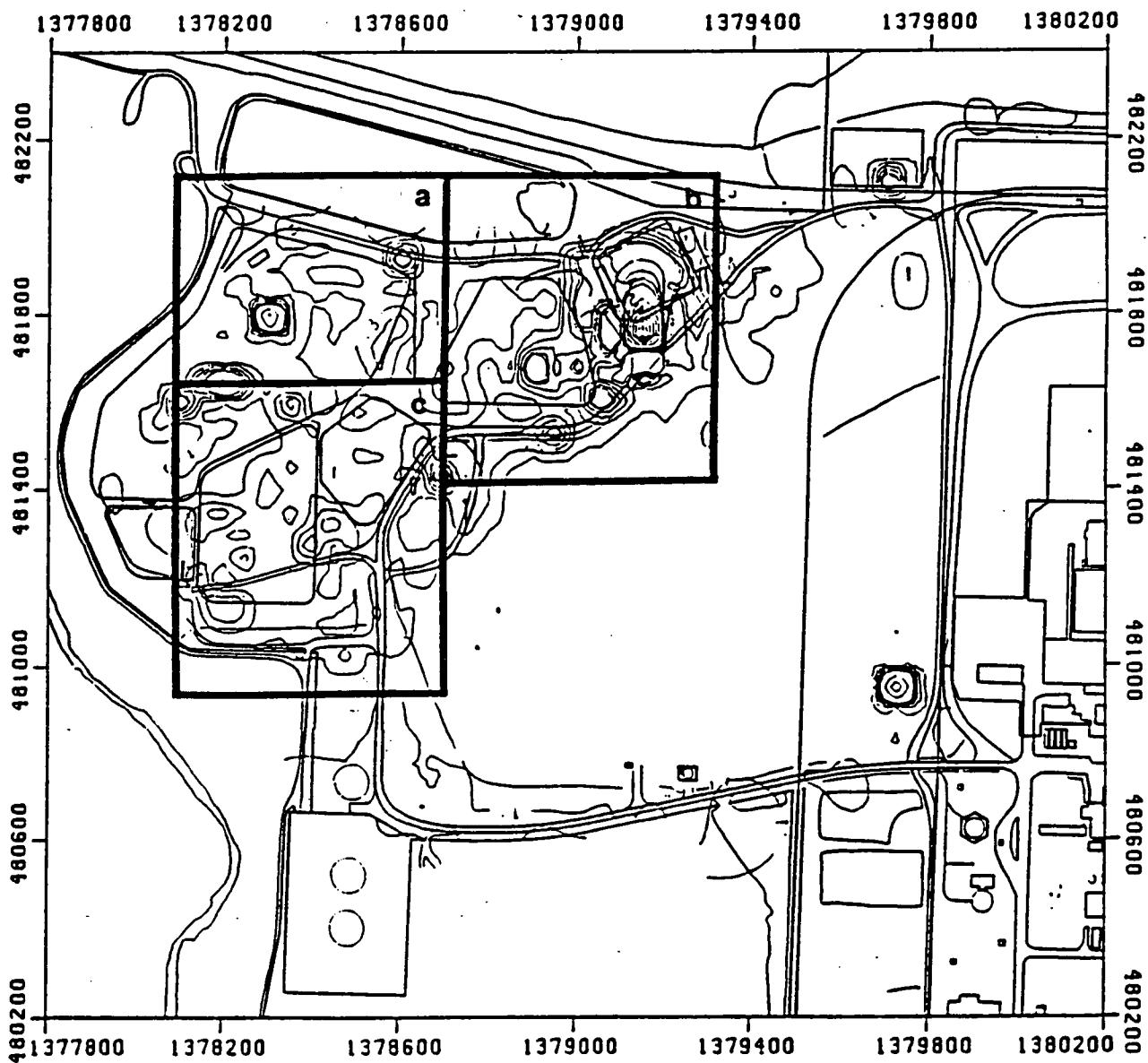


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FIGURE D-16C

LIME SLUDGE PONDS
CIS BETA GAMMA DOSE RATE CONTOURS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour intervals at 0.2, 1.0 and 5.0 mRad/hr)



0996

2/18/94

TABLE D-17A
LIME SLUDGE PONDS
GEOTECHNICAL ANALYSIS
PHASE I FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

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SURFACE SAMPLES

Location	Wet Density (pcf) ^a	Dry Density (pcf)	Moisture Content (%)
#12	83.1	46.8	77.6
#13	80.8	47.7	69.5
#14	79.7	50.5	57.8
#15	81.1	44.4	82.7

^apounds per cubic foot

8000

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TABLE D-17B
**LIME SLUDGE POND
 GEOTECHNICAL ANALYSIS
 PHASE II FIELD INVESTIGATION
 OPERABLE UNIT 2 REMEDIAL INVESTIGATION
 FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

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Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Specific Gravity	Moisture Content (%)	Bulk Density Unit Weight (pcf) ^b	Dry Density (pcf)	Atterberg Limits			Permeability (cm/s)	Wet Density (pcf)
								Liquid Limit	Plastic Limit	Plasticity Index		
LSP-SS-06	114493	5/11/93	0.0-0.5	-d	84.0	-	-	-	-	-	-	-
LSP-SB-01	114568	5/11/93	1.0-3.0	2.6959	23.9	-	-	34	19	15	-	-
LSP-SB-04	114574	5/11/93	1.0-3.0	2.6101	24.4	-	-	42	17	25	-	-
LSP-SB-07	114575	5/11/93	1.0-3.0	2.6752	24.2	-	-	34	18	16	-	-
1934	111184	5/11/93	4.0-6.0	2.6850	22.2	-	-	30	16	14	-	-
	114540	5/11/93	2.0-4.0	-	-	123.9	99.0	-	-	-	-	-
1937	111141	5/11/93	2.0-4.0	2.7318	17.6	-	-	31	17	14	-	-
1940	114671	5/15/93	2.0-4.0	-	-	126.9	105.7	-	-	-	-	-
	114672	5/15/93	4.0-6.0	2.7150	23.2	-	-	34	17	17	-	-
1956	114861	6/10/93	0.0-4.0	-	115.9	-	-	-	-	-	-	-
	114862	6/10/93	7.0-9.0	2.7483	35.6	-	-	27	15	12	-	-
1957	114854	6/7/93	0.5-2.0	-	99.9	-	-	-	-	-	-	-
	114855	6/7/93	2.0-4.0	2.6628	33.8	-	-	41	16	25	-	-
1958	114827	6/6/93	0.5-2.5	-	102.6	-	-	-	-	-	-	-
	114828	6/6/93	5.0-6.0	2.7514	32.2	-	-	40	18	22	-	-

TABLE D-17B
(Continued)

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Specific Gravity	Moisture Content (%)	Bulk Density Unit Weight (pcf) ^b	Dry Density (pcf)	Atterberg Limits			Permeability (cm/s)	Wet Density (pcf)
1959	114818	6/5/93	2.0-3.0	-	145.3	-	-	-	-	-	-	-
	114819	6/5/93	3.0-5.0	-	133.5	-	-	-	-	-	-	-
	114820	6/5/93	11.0-13.5	2.7415	29.5	-	-	22	14	8	-	-
1960	114736	5/27/93	2.5-5.0	-	105.0	-	-	-	-	-	-	-
1961	114748	6/1/93	7.0-9.0	2.6637	107.5	-	-	NP	NP	NP	-	-
	114749	6/1/93	10.0-12.0	2.7218	26.9	-	-	34	17	17	-	-
1962	114604	5/20/93	2.5-4.5	-	101.3	-	-	-	-	-	-	-
1963	114793	6/3/93	4.0-6.0	2.6515	81.9	-	-	NP	NP	NP	-	-
	114794	6/3/93	12.0-15.5	2.7584	29.1	-	-	31	17	14	-	-
2935	110790	5/11/93	2.0-4.0	2.8999	16.5	-	-	34	16	18	-	-
2936	110938	5/11/93	2.0-4.0	-	-	133.9	119.6	-	-	-	-	-
	110943	5/11/93	4.0-6.0	2.6943	11.4	-	-	24	13	11	-	-

^aThe sample interval is depth, in feet, below the ground surface

^bPounds per cubic foot

^cCentimeters per second

^dSample not analyzed for this parameter

^eNP = Nonplastic

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TABLE D-17C
LIME SLUDGE PONDS
SIEVE ANALYSIS - ASTM D 422
PHASE II REMEDIAL INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Location	Sample No.	Date Sampled	Sample Interval (ft) ^a	Classification ^b	Sieve Analysis (% Passing Sieve No.)												
					3"	1.5"	0.75"	0.375"	#4	#10	#20	#40	#60	#100	#140	#200	
LSP-SS-06	114493	5/11/93	0.0-0.5	NA ^c	100	100	100	100	100	100	100	99.8	99.5	99.0	98.8	98.6	
LSP-SB-01	114568	5/11/93	1.0-3.0	CL	100	100	100	100	99.8	99.4	98.4	97.2	95.9	93.1	89.9	87.0	
LSP-SB-04	114574	5/11/93	1.0-3.0	CL	100	100	100	100	99.7	99.5	98.8	97.7	96.0	93.1	91.0	89.5	
LSP-SB-07	11575	5/11/93	1.0-3.0	CL	100	100	100	100	99.8	99.1	98.2	96.5	94.9	93.0	91.7	90.6	
1934	111184	5/11/93	4.0-6.0	CL	100	100	96.3	95.8	94.8	93.0	92.4	91.7	91.9	90.5	90.0	89.6	
1937	111141	5/11/93	2.0-4.0	CL	100	100	100	100	100	100	99.9	99.7	99.2	98.7	98.1	97.7	97.2
1940	114672	5/15/93	4.0-6.0	CL	100	100	100	100	100	100	100	99.7	99.1	98.2	97.5	96.6	95.4
1956	114862	6/8/93	7.0-9.0	CL	100	100	100	100	100	100	99.9	99.9	99.4	99.0	98.4	97.9	96.8
1957	114855	6/7/93	2.0-4.0	CL	100	100	100	100	100	100	100	99.6	98.8	98.0	95.1	91.8	89.2
1958	114828	6/6/93	5.0-6.0	CL	100	100	100	100	99.9	99.8	99.5	99.0	98.5	97.9	97.6	97.4	
1959	114820	6/5/93	11.0-13.5	CL	100	100	100	100	99.9	99.6	99.2	98.5	96.0	90.4	83.2	77.7	
1961	114748	6/1/93	7.0-9.0	CL	100	100	100	100	100	100	100	99.9	99.8	99.6	99.5	99.3	
	114749	6/1/93	10.0-12.0	CL	100	100	100	100	100	100	99.8	99.5	98.9	98.3	97.4	96.2	95.0
1963	114793	6/3/93	4.0-6.0	CL	100	100	100	100	100	100	100	99.0	98.6	98.3	98.1	98.0	
	114794	6/3/93	12.0-15.5	CL	100	100	100	100	100	100	100	99.9	99.8	99.6	99.2	98.5	97.7
2935	110790	5/11/93	2.0-4.0	CL	100	100	100	97.0	94.9	92.1	88.2	84.7	81.4	78.1	76.2	74.6	
	110790	5/11/93	2.0-4.0	NA	100	100	91.2	88.4	82.3	76.2	68.1	60.8	55.9	52.4	50.4	48.8	
2936	110943	5/11/93	4.0-6.0	SC	100	100	97.4	97.0	95.4	91.6	84.5	72.0	58.5	51.7	48.9	47.2	

^aThe sample interval is depth, in feet, below the ground surface.

^bUnified Soil Classification System (USCS)

CL = inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays

NP = nonplastic

NA = Not applicable

TABLE D-17D

LIME SLUDGE PONDS
HYDROMETER ANALYSIS - ASTM D 422
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

LOCATION: LSP-SS-06 SAMPLE NO.: 114493 DEPTH: 0.0-0.5 ft.

Particle Diameter (mm)	0.05460	0.03956	0.02928	0.02141	0.01351	0.00956	0.00680	0.00481	0.00333	0.00137
Percent Finer	95.2	89.8	79.1	39.6	8.6	3.2	1.1	0.0	0.0	0.0

LOCATION: LSP-SB-01 SAMPLE NO.: 114568 DEPTH: 1.0-3.0 ft.

Particle Diameter (mm)	0.05044	0.03765	0.02729	0.01824	0.01133	0.00835	0.00608	0.00437	0.00311	0.00130
Percent Finer	88.4	79.7	75.4	65.0	50.3	39.9	32.9	28.6	25.1	15.6

LOCATION: LSP-SB-04 SAMPLE NO.: 114574 DEPTH: 1.0-3.0 ft.

Particle Diameter (mm)	0.05337	0.03836	0.02839	0.01847	0.01113	0.00812	0.00590	0.00426	0.00300	0.00130
Percent Finer	89.6	86.8	78.2	72.5	60.1	52.4	45.8	40.0	35.3	22.9

LOCATION: LSP-SB-07 SAMPLE NO.: 114575 DEPTH: 1.0-3.0 ft.

Particle Diameter (mm)	0.05107	0.03812	0.02747	0.01847	0.01149	0.00856	0.00615	0.00442	0.00314	0.00132
Percent Finer	90.4	81.5	78.0	66.5	47.9	34.6	30.1	26.6	23.0	13.3

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TABLE D-17D
(Continued)

LOCATION: 1934 SAMPLE NO.: 111184 DEPTH: 4.0-6.0 ft.

Particle Diameter (mm)	0.04803	0.03524	0.02562	0.01902	0.01221	0.00877	0.00629	0.00451	0.00315	0.00139
Percent Finer	89.9	84.9	79.9	51.6	27.5	23.3	19.2	15.8	13.3	7.5

LOCATION: 1937 SAMPLE NO.: 111141 DEPTH: 2.0-4.0 ft.

Particle Diameter (mm)	0.03484	0.02558	0.01680	0.01052	0.00782	0.00574	0.00422	0.00300	0.00133
Percent Finer	89.1	83.0	76.8	60.9	50.3	40.6	31.8	23.8	5.3

LOCATION: 1940 SAMPLE NO.: 114672 DEPTH: 4.0-6.0 ft.

Particle Diameter (mm)	0.03780	0.02754	0.01897	0.01227	0.00884	0.00627	0.00441	0.00304	0.00131
Percent Finer	87.7	81.7	61.8	30.9	23.9	19.9	16.9	13.0	6.0

LOCATION: 1956 SAMPLE NO.: 114862 DEPTH: 7.0-9.0 ft.

Particle Diameter (mm)	0.05013	0.03734	0.02844	0.02116	0.01272	0.00895	0.00640	0.00449	0.00316	0.00136
Percent Finer	94.2	85.0	70.2	29.6	17.6	14.8	12.0	11.1	9.2	7.4

LOCATION: 1957 SAMPLE NO.: 114855 DEPTH: 2.0-4.0 ft.

Particle Diameter (mm)	0.05361	0.03929	0.02841	0.01874	0.01146	0.00819	0.00591	0.00423	0.00300	0.00131
Percent Finer	92.1	85.1	80.1	70.1	56.1	49.1	43.1	36.1	32.0	24.0

D-17-6

1002

TABLE D-17D
(Continued)

LOCATION: 1958 SAMPLE NO.: 114828 DEPTH: 5.0-6.0 ft.

Particle Diameter (mm)	0.03520	0.02564	0.01697	0.01075	0.00806	0.00583	0.00415	0.00296	0.00131
Percent Finer	96.1	91.3	82.7	59.6	44.2	37.5	31.7	26.0	14.4

LOCATION: 1959 SAMPLE NO.: 114820 DEPTH: 11.0-13.5 ft.

Particle Diameter (mm)	0.05696	0.04178	0.03057	0.02014	0.01212	0.00874	0.00620	0.00436	0.00308	0.00133
Percent Finer	77.6	69.7	61.7	49.8	34.8	27.9	23.9	20.9	18.9	14.9

LOCATION: 1961 SAMPLE NO.: 114748 DEPTH: 7.0-9.0 ft.

Particle Diameter (mm)	0.05919	0.04928	0.03619	0.02304	0.01314	0.00929	0.00657	0.00465	0.00322	0.00136
Percent Finer	76.7	24.1	9.9	6.6	6.6	6.6	6.6	6.6	6.6	6.6

LOCATION: 1961 SAMPLE NO.: 114749 DEPTH: 10.0-12.0 ft.

Particle Diameter (mm)	0.04797	0.03534	0.02612	0.01730	0.01098	0.00811	0.00584	0.00420	0.00296	0.00128
Percent Finer	95.1	88.0	81.0	72.2	51.9	40.5	36.1	31.7	26.4	19.4

LOCATION: 1963 SAMPLE NO.: 114793 DEPTH: 4.0-6.0 ft.

Particle Diameter (mm)	0.06006	0.04785	0.03607	0.02300	0.01330	0.00929	0.00657	0.00466	0.00324	0.00137
Percent Finer	56.7	27.5	8.6	6.0	5.2	5.2	5.2	4.3	3.4	3.4

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TABLE D-17D
(Continued)

LOCATION: 1963 SAMPLE NO.: 114794 DEPTH: 12.0-15.5 ft.

Particle Diameter (mm)	0.04612	0.03335	0.02493	0.01871	0.01168	0.00838	0.00595	0.00428	0.00298	0.00127
Percent Finer	97.5	94.0	85.5	53.0	31.6	27.4	25.6	21.4	19.7	16.2

LOCATION: 2935 SAMPLE NO.: 110790 DEPTH: 2.0-4.0 ft.

Particle Diameter (mm)	0.05008	0.03706	0.02666	0.01751	0.01067	0.00776	0.00563	0.00405	0.00285	0.00121
Percent Finer	72.4	65.3	62.1	55.7	44.6	35.8	30.2	26.3	22.3	14.3

LOCATION: 2935 SAMPLE NO.: 115327 DEPTH: 2.0-4.0 ft.

Particle Diameter (mm)	0.05719	0.04251	0.03049	0.02033	0.01235	0.00890	0.00636	0.00453	0.00316	0.00138
Percent Finer	49.9	41.5	38.7	28.1	16.9	12.7	10.5	8.4	7.0	4.2

LOCATION: 2936 SAMPLE NO.: 110943 DEPTH: 4.0-6.0 ft.

Particle Diameter (mm)	0.06315	0.04609	0.03301	0.02316	0.01356	0.00965	0.00674	0.00478	0.00332	0.00137
Percent Finer	50.1	43.0	39.4	9.8	5.4	3.6	3.6	2.7	1.8	0.0

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FIGURE D-17A

LIME SLUDGE PONDS

UNCONFINED COMPRESSIVE STRENGTH RESULTS - ASTM D 1266

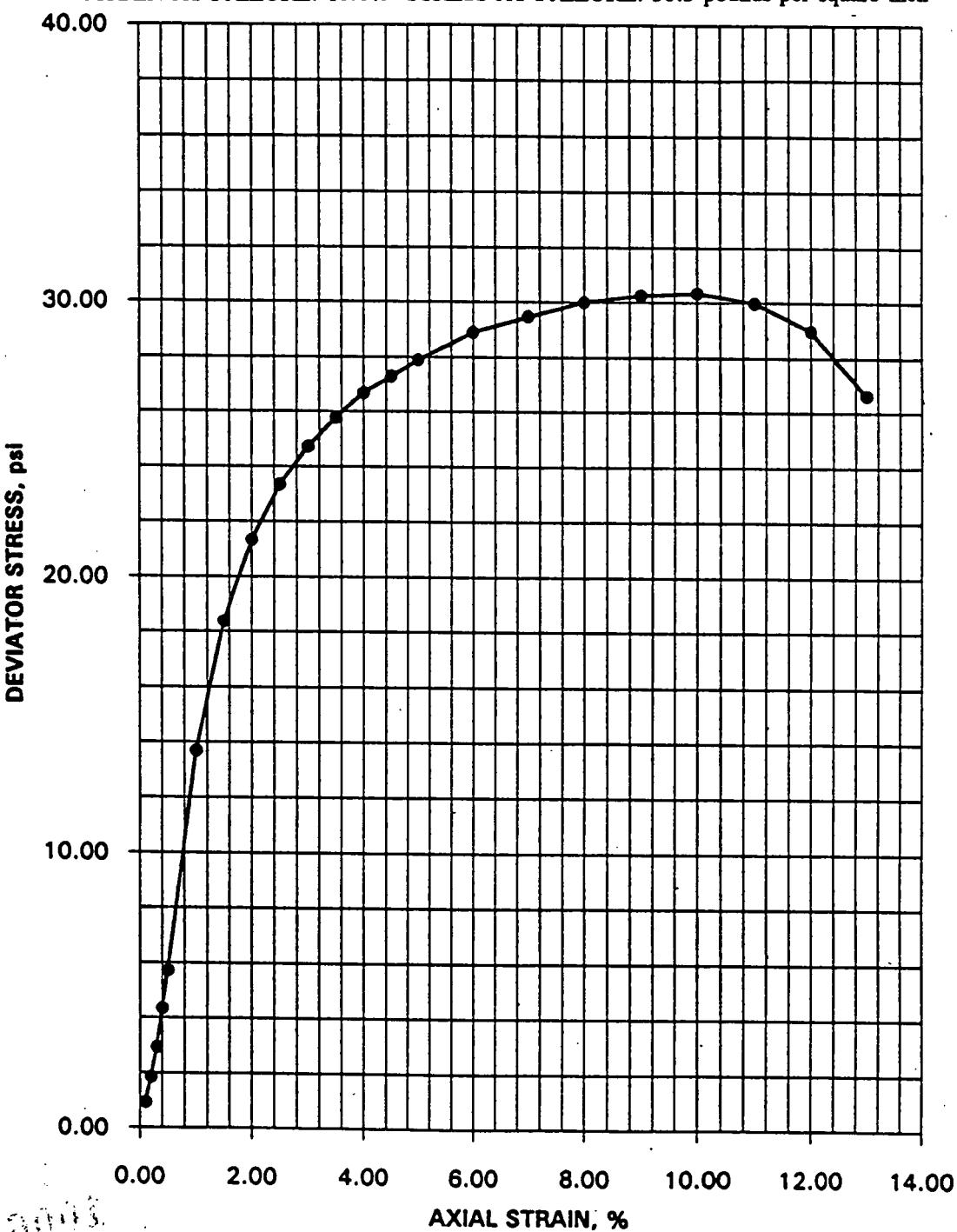
OPERABLE UNIT 2 REMEDIAL INVESTIGATION

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

LOCATION: 1934 SAMPLE NUMBER: 114540 DEPTH: 2.0-4.0 ft.

LENGTH: 5.5698 in. DIAMETER: 2.8633 in. WEIGHT: 1166.6 g

STRAIN AT FAILURE: 10.0% STRESS AT FAILURE: 30.3 pounds per square inch

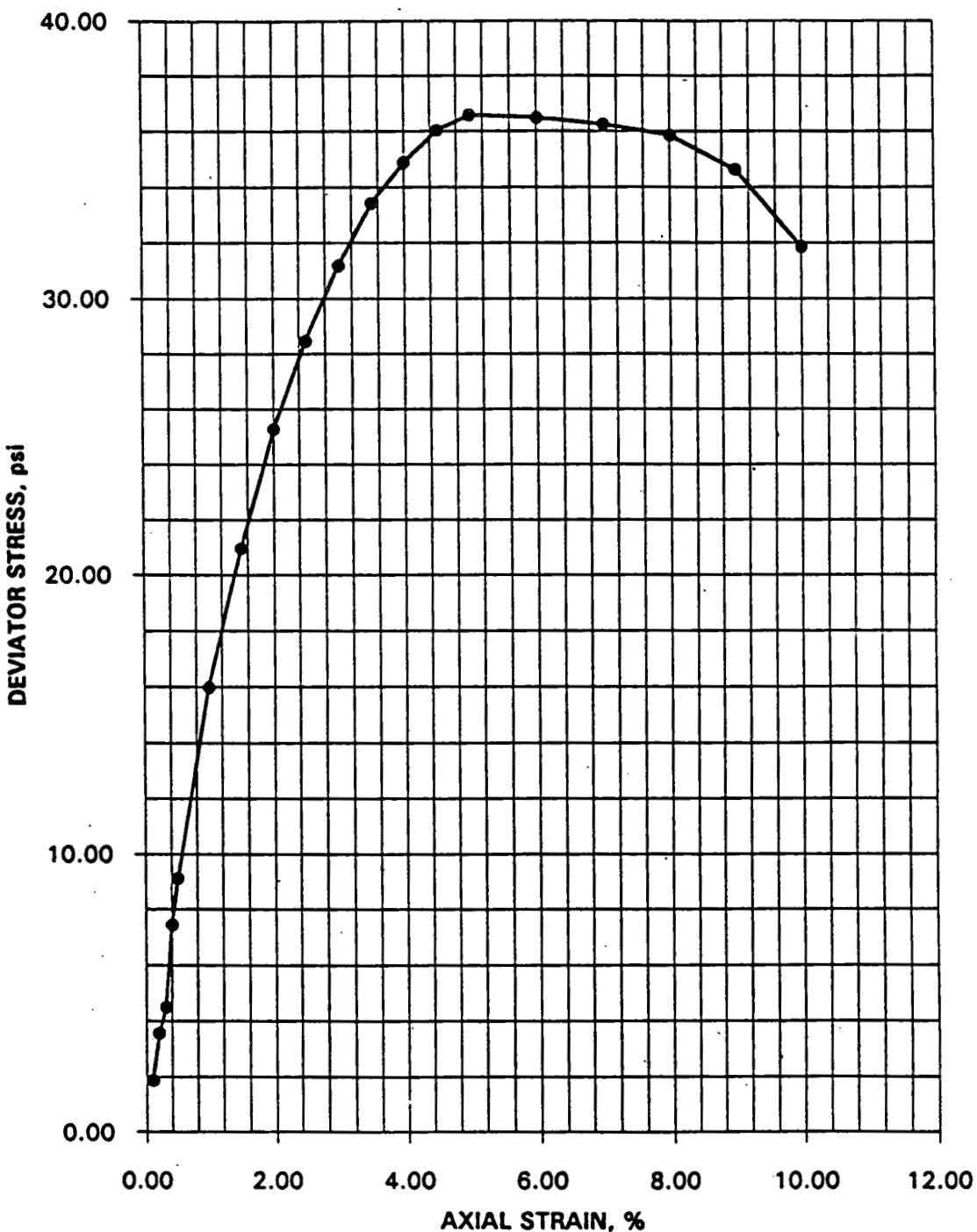


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FIGURE D-17B

LOCATION: 1948 SAMPLE NUMBER: 114671 DEPTH: 2.0-4.0 ft.
LENGTH: 5.6267 in. DIAMETER: 2.8637 in. WEIGHT: 1207.15 g
STRAIN AT FAILURE: 5.0% STRESS AT FAILURE: 36.6 pounds per square inch

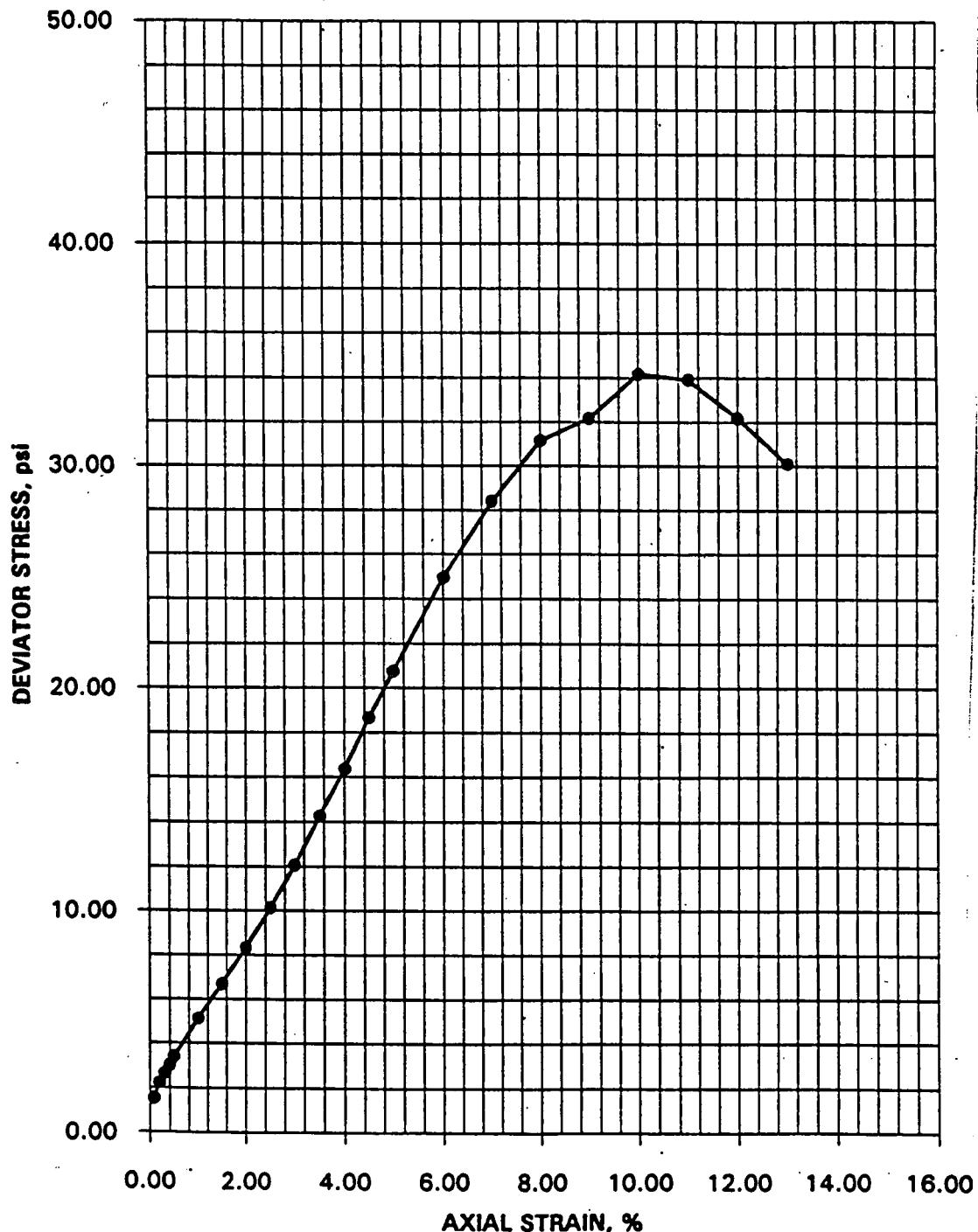


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FIGURE D-17C

LOCATION: 2936 SAMPLE NUMBER: 110938 DEPTH: 2.0-4.0 ft.
LENGTH: 5.5587 in. DIAMETER: 2.8253 in. WEIGHT: 1250.8 g
STRAIN AT FAILURE: 10.0% STRESS AT FAILURE: 34.2 pounds per square inch



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TABLE D-18A
LIME SLUDGE PONDS
CIS GEOPHYSICAL ANALYSIS
TOTAL MAGNETIC INTENSITY READINGS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

5173

State Planer Coordinates		
North (ft)	East (ft)	Reading (Gammas)
480577.71	1379544.30	55602.0
480552.73	1379543.61	55784.0
480527.73	1379542.23	55852.0
480502.74	1379542.23	55754.0
480477.75	1379541.56	55604.0
480452.76	1379540.88	55314.0
480477.07	1379566.55	55783.0
480502.06	1379567.22	55838.0
480527.05	1379567.91	55860.0
480552.04	1379568.59	55834.0
480577.03	1379569.28	55811.0
480576.35	1379594.28	55853.0
480551.36	1379593.59	55842.0
480526.37	1379592.91	55849.0
480501.38	1379592.22	55838.0
480476.39	1379591.55	55805.0
480451.39	1379590.86	55680.0
480450.71	1379615.84	55649.0
480475.70	1379616.53	55792.0
480500.69	1379617.20	55820.0
480525.68	1379617.89	55833.0
480550.68	1379618.58	55835.0
480575.66	1379619.27	55842.0
480574.98	1379644.27	55818.0
480549.99	1379643.58	55811.0
480525.00	1379642.89	55806.0

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TABLE D-18A
(Continued)

State Planer Coordinates		
North (ft)	East (ft)	Reading (Gammas)
480500.01	1379642.20	55797.0
480475.02	1379641.53	56764.0
480450.03	1379640.84	55638.0
480449.34	1379665.83	55614.0
480474.34	1379666.52	56734.0
480499.32	1379667.19	55757.0
480524.32	1379667.88	55765.0
480549.31	1379668.56	55769.0
480574.30	1379669.25	55767.0
480573.61	1379694.23	55718.0
480548.63	1379693.55	55719.0
480523.63	1379692.86	55716.0
480498.64	1379692.17	55711.0
480473.65	1379691.50	55766.0
480448.66	1379690.81	55611.0
480447.98	1379715.81	55571.0
480472.97	1379716.50	55638.0
480497.96	1379717.17	55647.0
480522.95	1379717.86	55650.0
480547.94	1379718.55	55648.0
480572.93	1379719.23	55640.0
480572.25	1379744.22	55545.0
480547.26	1379743.53	55554.0
480522.27	1379742.84	55556.0
480497.27	1379742.16	55559.0
480472.29	1379741.48	55544.0
480447.29	1379740.80	55460.0
480446.61	1379765.80	55339.0
480471.60	1379766.48	55418.0

TABLE D-18A
(Continued)

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State Planer Coordinates

North (ft)	East (ft)	Reading (Gammas)
480496.59	1379767.16	55406.0
480521.58	1379767.84	55423.0
480546.57	1379768.53	55497.0
480571.56	1379769.22	55646.0
480570.88	1379794.20	55395.0
480545.89	1379793.52	55208.0
480520.89	1379792.83	55053.0
480495.90	1379792.14	54947.0
480470.91	1379791.47	55197.0

1010

5173

TABLE D-18B
LIME SLUDGE PONDS
CIS GEOPHYSICAL ANALYSIS
EM 31 READINGS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

State Planer Coordinates		Horizontal Dipole (mmhos/m)	Horizontal Dipole (mmhos/m)
North (ft)	East (ft)		
480577.71	1379544.30	22.00	32.00
480652.69	1379546.34	1.0E30	1.0E30
480702.67	1379547.72	1.0E30	1.0E30
480575.66	1379619.27	20.00	34.00
480550.68	1379618.58	16.00	26.00
480525.68	1379617.89	16.00	23.00
480500.69	1379617.20	16.00	24.00
480475.70	1379616.53	18.00	28.00
480477.07	1379566.55	22.00	40.00
480502.06	1379567.22	19.00	30.00
480527.05	1379567.91	16.00	28.00
480552.04	1379568.59	18.00	30.00
480549.31	1379668.56	18.00	28.00
480524.32	1379667.88	16.00	24.00
480499.32	1379667.19	16.00	23.00
480474.34	1379666.52	16.00	27.50
480403.36	1379664.56	20.00	46.00
480547.94	1379718.55	18.00	29.00
480522.95	1379717.86	16.00	24.00
480497.96	1379717.17	15.00	23.00
480472.97	1379716.50	16.00	27.00
480471.60	1379766.48	19.00	32.00
480496.59	1379767.16	16.00	25.00
480521.58	1379767.84	17.00	28.00
480546.57	1379768.53	21.00	32.00
480402.10	1379564.48	28.00	46.00

TABLE D-18B
(Continued)

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State Planer Coordinates		Horizontal Dipole (mmhos/m)	Horizontal Dipole (mmhos/m)
North (ft)	East (ft)		
480352.12	1379563.13	21.00	34.00
480302.13	1379561.75	24.00	37.00
480300.77	1379611.73	22.00	33.00
480350.75	1379613.11	22.00	34.00
480400.73	1379614.47	26.00	51.00
480399.36	1379664.45	24.00	46.00
480349.38	1379663.09	24.00	36.00
480299.40	1379661.72	22.00	34.00
480298.03	1379711.70	24.00	37.00
480348.02	1379713.08	22.00	35.00
480398.00	1379714.44	25.00	47.00

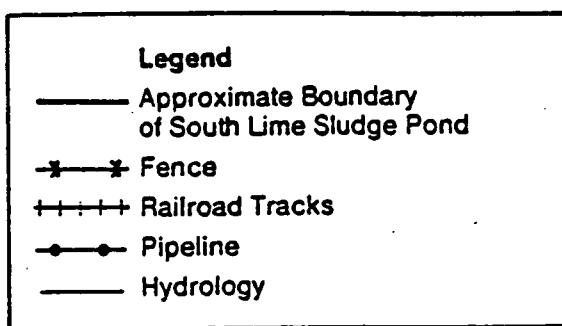
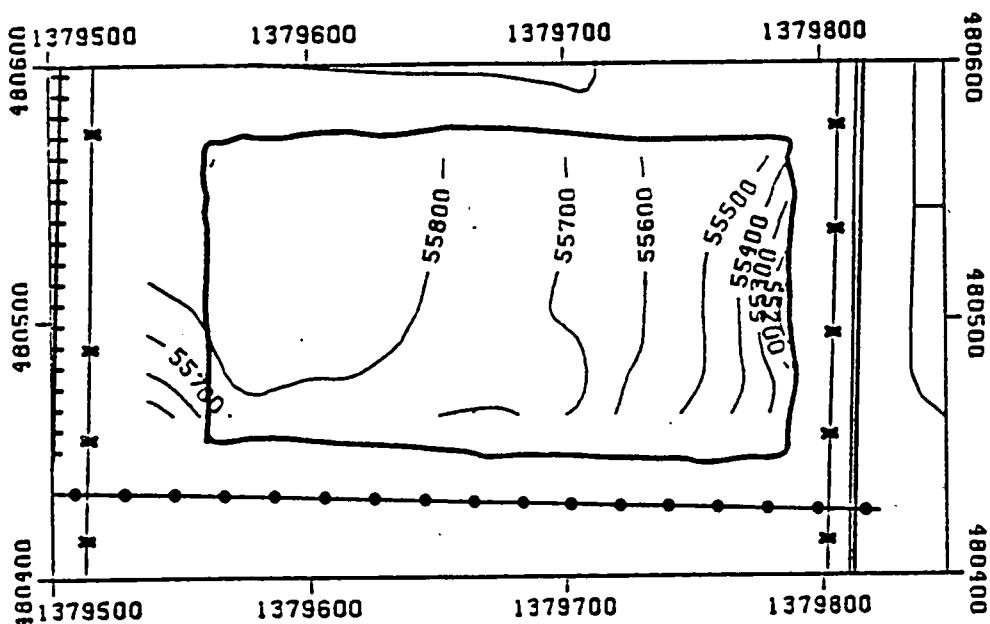
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FEMP-OU02-4 DRAFT
February 18, 1994

FIGURE D-18A
LIME SLUDGE PONDS
CIS GEOPHYSICAL ANALYSIS
TOTAL MAGNETIC INTENSITY CONTOURS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour interval 100 Gammas)



STATE PLANE COORDINATE SYSTEM

OHIO SOUTH ZONE



1 INCH = 75 FEET

PREPARED BY

RAY F. WESTON, INC. 9/1/87

1013

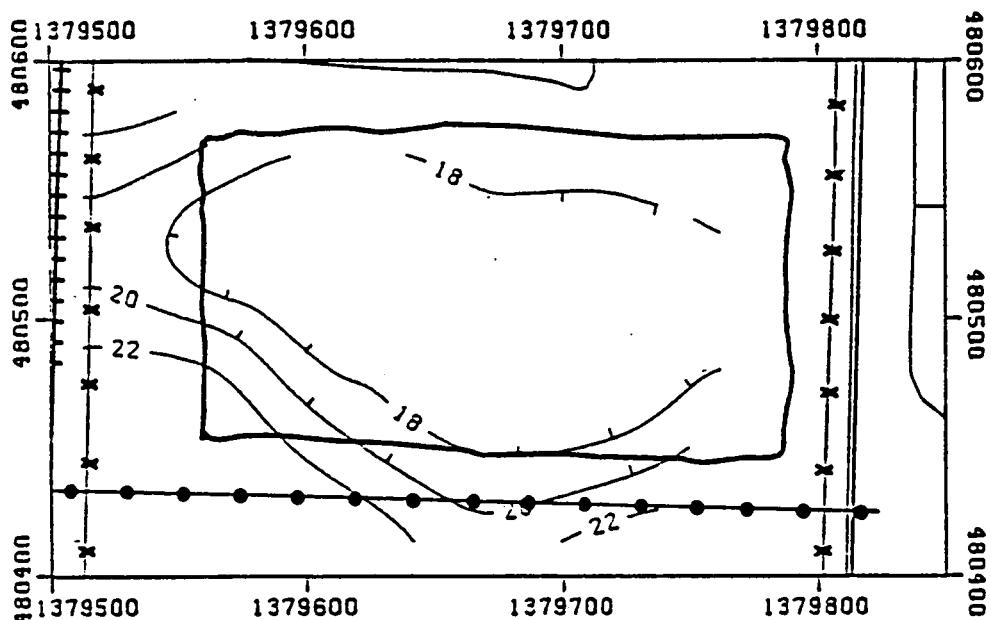
February 1984

5179

FIGURE D-18B

LIME SLUDGE PONDS
 CIS GEOPHYSICAL ANALYSIS
 EM 31 HORIZONTAL DIPOLE APPARENT CONDUCTIVITY MAP
 OPERABLE UNIT 2 REMEDIAL INVESTIGATION
 FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour interval 2.0 mmhos/m)



Legend

- Approximate Boundary of South Lime Sludge Pond
- +— Fence
- +--- Railroad Tracks
- Pipeline
- Hydrology

STATE PLANE COORDINATE SYSTEM

OHIO SOUTH ZONE



1 INCH = 75 FEET

PREPARED BY

ROY F. WESTON, INC. 9/1/87

1014

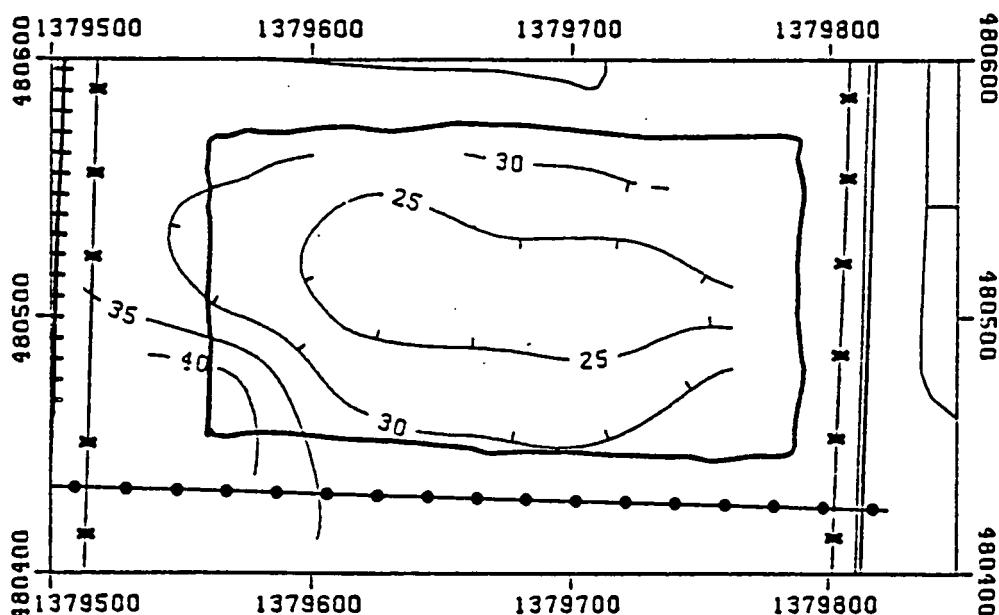
5178

FEMP-OU02-4 DRAFT
February 18, 1994

FIGURE D-18C

LIME SLUDGE PONDS
CIS GEOPHYSICAL ANALYSIS
EM 31 VERTICAL DIPOLE APPARENT CONDUCTIVITY MAP
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

(Contour interval 5.0 mmhos/m)



Legend

- Approximate Pit Boundary
- X — Fence
- + + + Railroad Tracks
- ● Pipeline (Buried)
- Hydrology

STATE PLANE COORDINATE SYSTEM

OHIO SOUTH ZONE

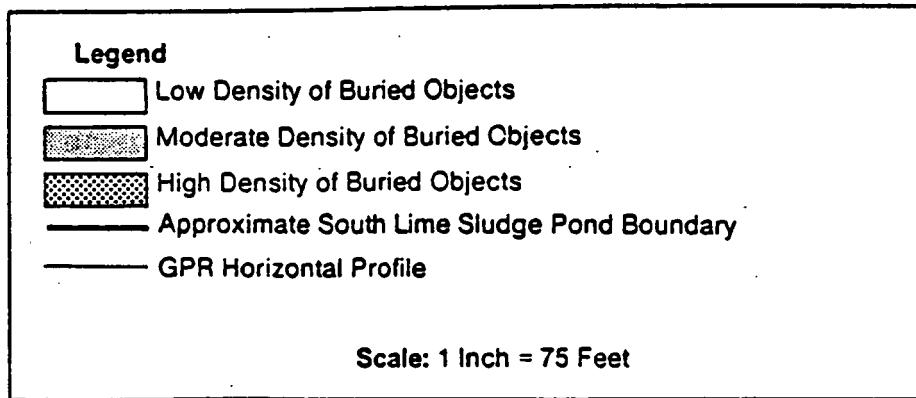
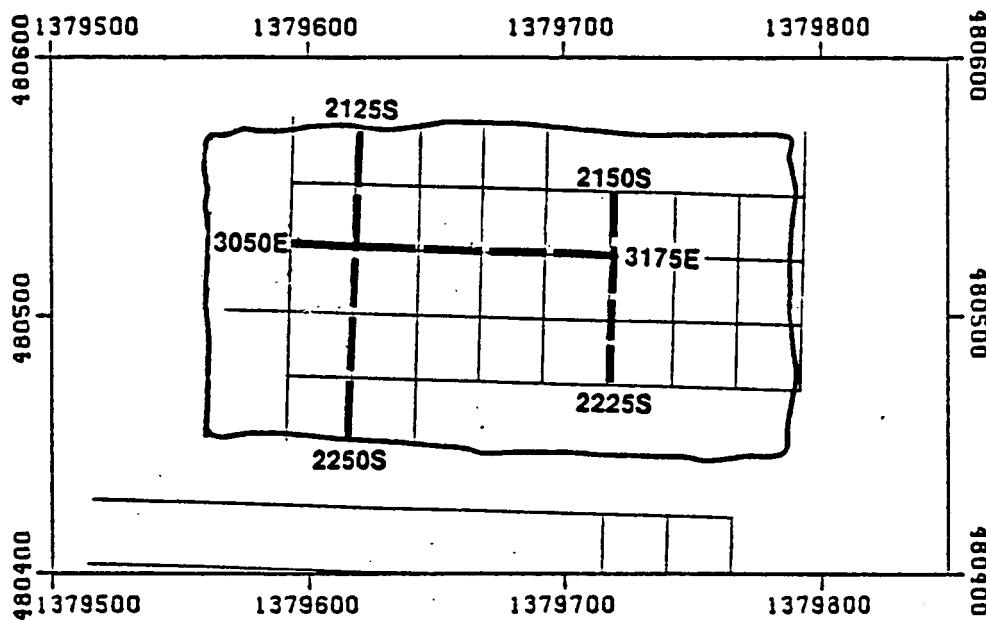
1 INCH = 75 FEET

PREPARED BY

RAY F. WESTON, INC. 9/1/87

-5173

FIGURE D-18D
LIME SLUDGE PONDS
CIS GEOPHYSICAL ANALYSIS
GROUND PENETRATING RADAR RESULTS
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT



1016

February 18, 1994

5173

02/02/94 14:10

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 1039					COORDINATES: NORTH 480729.12 EAST 1379659.11			DATE: 08-APR-88		
GROUND ELEVATION: 577.4					GWL: Depth Date/Time			DATE STARTED: 08-APR-88		
ENGINEER/GEOLOGIST: M. SLUSARSKI					Depth Date/Time			DATE COMPLETE: 09-APR-88		
DRILLING METHOD: CABLE-TOOL DRILLING										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	R E C O V E R Y	I N C H E R S		S U Y S M C B S O L	T S F	REMARKS	
1.5	008431 04/08/88 09:21	3 8 10		12	VERY STIFF, BROWN (10YR, 3/2) CLAY, ROOTLETS, DRY.			CL	2.5	PID=0 ppm BI=120 cpm
1.5 3.0	008432 04/08/88 09:24	5 7 8		14	STIFF, GREY/BROWN, (10YR, 4/1) CLAY, DRY.			CL	2.0	PID=0 ppm BI=120 cpm
3.0 4.5	008433 04/08/88 09:33	5 9 12		8	VERY STIFF, OLIVE/BROWN (5Y, 4/3) MOTTLED CLAY, DRY.			CL	3.5	PID=0 ppm BI=100 cpm
4.5 6.0	008434 04/08/88 09:38	11 13 15		10	VERY STIFF, GREY/BROWN (10YR, 5/1) MOTTLED, CLAY, DRY.			CL	2.5	PID=0 ppm BI=100 cpm
6.0 7.5	008435 04/08/88 09:41	15 15 18		12	VERY STIFF, GREY/BROWN (10YR, 5/1) MOTTLED, CLAY, DAMP.			CL	2.0	PID=0 ppm BI=100 cpm
7.5 9.0	008436 04/08/88 09:46	11 14 14		12	STIFF, GREY (2.5Y, 6/2) CLAY, DAMP.			CL	1.5	PID=0 ppm BI=100 cpm
12.0 13.5	008439 04/08/88 14:21	4 7 11		14	MEDIUM STIFF, GREY (5Y, 5/1) SILTY CLAY, DAMP.			CL	1.0	PID=0 ppm BI=100 cpm
13.5 15.0	008440 04/08/88 14:26	10 12 19		12	MEDIUM STIFF, GREY (5Y, 5/1) SILTY CLAY, DAMP.			CL	1.0	PID=0 ppm BI=100 cpm
15.0 16.5	008441 04/08/88 14:30	17 20 17		14	MEDIUM STIFF, GREY (5Y, 5/1) SILTY CLAY, SOME FINE SAND, DAMP.			CL	1.0	PID=0 ppm BI=80 cpm
16.5 18.0	008442 04/08/88 15:05	2 5 13		14	MEDIUM STIFF, GREY (5Y, 5/1) SILTY CLAY, SOME FINE SAND, DAMP.			CL	1.5	PID=0 ppm BI=80 cpm
18.0 19.5	008443 04/08/88 00:00	6 12 15		14	MEDIUM DENSE, GREY (5Y, 4/1) WELL GRADED, GRAVELLY SAND, WET.			SW	N/A	PID=0 ppm BI=80 cpm
19.5 21.0	008444 04/08/88 15:11	10 16 18		14	DENSE, GREY (5Y, 4/1) WELL GRADED, GRAVELLY SAND, WET.			SW	N/A	PID=0 ppm BI=80 cpm
21.0 22.5	008445 04/08/88 15:13	14 20 21		14	DENSE, GREY (5Y, 4/1) WELL GRADED, GRAVELLY SAND, WET.			SW	N/A	PID=0 ppm BI=80 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

1017

02/02/94 14:10

FEMP-OU02-4 DRAFT
 February 18, 1994
 Page 2

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1039					COORDINATES: NORTH 480729.12 EAST 1379659.11 DATE: 08-APR-88						
GROUND ELEVATION: 577.4					GWL: Depth		Date/Time			DATE STARTED: 08-APR-88	
ENGINEER/GEOLOGIST: M. SLUSARSKI					Depth		Date/Time			DATE COMPLETE: 09-APR-88	
DRILLING METHOD: CABLE-TOOL DRILLING											
D E P T H	S A M P L E	D A T E E E	T I M E S E E	B L O W S P E E N O R Y	S A M P L E S P E E N O R Y	R E C O V E R Y	I N C H E S	S Y S M C B S O L	T S F	REMARKS	
22.5	008446	10			MEDIUM DENSE, GREY (5Y, 4/1) CLAYEY GRAVEL, GRAVEL-SAND-CLAY MIXTURE, WET. VERY STIFF, GREY (5Y, 4/1) CLAY, SOME FINE GRAVEL AND SILT, DRY.			GC	N/A	PID=0 ppm BT=80 cpm	
24.0	008446	8		14				CL	2.5		
24.0	008447	7			VERY STIFF, GREY (5Y, 4/1) CLAY, SOME FINE GRAVEL AND SILT, DRY.			CL	2.5	PID=0 ppm BT=80 cpm	
25.5	008447	10		11							
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

02/02/94 14:10

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1041					COORDINATES: NORTH 480550.15 EAST 1379798.68				
GROUND ELEVATION: 581.3					GWL: Depth	Date/Time			DATE STARTED: 10-APR-88
ENGINEER/GEOLOGIST: M. SLUSARSKI					Depth	Date/Time			DATE COMPLETE: 11-APR-88
DRILLING METHOD: CABLE-TOOL DRILLING									
DEPTH	SAMPLE	SALE TIME	BLOW COUNT	RECOVERY					REMARKS
H	E	E	ON	%	SYNTHETIC CUBES SOIL	T S F			
1.5	008448 04/10/88 14:09	24 7	12		STIFF YELLOW-BROWN CLAY (10YR, 4/3) SOME FINE GRAVEL, ROOTLETS, DRY.	CL	2.0	PID=0 ppm BT=140 cpm	
1.5 3.0	008449 04/10/88 14:12	35 17	12		STIFF YELLOW-BROWN CLAY (10YR, 4/3) SOME FINE GRAVEL, ROOTLETS, DRY.	CL	2.0	PID=0 ppm BT=140 cpm	
3.0 4.5	008450 04/10/88 00:00	18 20 18	18		VERY STIFF, YELLOW-BROWN (5Y, 4/4) CLAY, SOME FINE GRAVEL, DRY. STIFF GREY-BROWN, MOTTLED (10YR, 3/1) CLAY, SOME FINE GRAVEL, DRY.	CL CL	2.5 2.0	PID=0 ppm BT=120 cpm	
4.5 6.0	008451 04/10/88 14:21	24 25 30	18		VERY STIFF YELLOW-BROWN-GREY, MOTTLED (10YR, 4/4) CLAY, DRY.	CL	3.0	PID=0 ppm BT=120 cpm	
6.0 7.5	008452 04/10/88 14:26	24 26 24	14		STIFF GREY-YELLOW BROWN, MOTTLED, (10YR, 5/1) CLAY, DRY.	CL	2.0	PID=0 ppm BT=120 cpm	
7.5 9.0	008453 04/10/88 14:28	25 28 27	8		STIFF GREY-YELLOW BROWN, MOTTLED, (10YR, 5/1) CLAY, DRY.	CL	2.0	PID=0 ppm BT=120 cpm	
12.0 13.5	008456 04/11/88 09:40	56 8	12		STIFF, GREY (5Y, 5/1) CLAY, SOME SILT, DAMP.	CL	2.0	PID=0 ppm BT=100 cpm	
13.5 15.0	008457 04/11/88 09:44	55 7	12		STIFF, GREY (5Y, 5/1) CLAY, SOME SILT, DAMP.	CL	2.0	PID=0 ppm BT=100 cpm	
15.0 16.5	008458 04/11/88 09:48	34 4	12		STIFF, GREY (5Y, 5/1) CLAY, SOME SILT, DAMP.	CL	2.0	PID=0 ppm BT=100 cpm	
16.5 18.0	008459 04/11/88 09:51	44 6	12		STIFF, GREY (5Y, 5/1) CLAY, SOME SILT, DAMP.	CL	2.0	PID=0 ppm BT=100 cpm	
18.0 19.5	008460 04/11/88 11:00	15 6	14		STIFF, GREY (5Y, 5/1) CLAY, SOME SILT, DAMP.	CL	2.0	PID=0 ppm BT=100 cpm	
19.5 21.0	008461 04/11/88 11:02	34 4	18		STIFF, GREY (5Y, 5/1) CLAY, SOME SILT, DAMP.	CL	2.0	PID=0 ppm BT=100 cpm	
21.0 22.5	008462 04/11/88 11:15	22 4	18		STIFF, GREY (5Y, 5/1) CLAY, SOME SILT, DAMP.	CL	2.0	PID=0 ppm BT=100 cpm	
NOTES:									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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02/02/94 14:10

5178

PROJECT NUMBER: 602 3.7					PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1134					COORDINATES: NORTH 480745.16 EAST 1379849.31 DATE:03-MAY-89				
GROUND ELEVATION: 579.8					GWL: Depth	Date/Time		DATE STARTED: 03-MAY-89	
ENGINEER/GEOLOGIST: L. SINFIELD					Depth	Date/Time		DATE COMPLETE: 04-MAY-89	
DRILLING METHOD: AUGER									
D E P T H	S A M P L E	D A T E E E	B L O W S O N	R E C O M P L E R Y	I N C H E R E S		S U Y S M B C S O L	T S F	REMARKS
.5	015627 05/03/89 15:25	7 5 6	12	DARK YELLOWISH BROWN (10 YR, 4/4) LEAN CLAY, CL-HARD, ABUNDENT ROOTS, DRY.			CL	4.5	PID=0 ppm $\alpha=0$ ppm BI=160-200 cpm
.5	015628 05/03/89 15:25	7 5 6	12	DARK YELLOWISH BROWN (10 YR, 4/4) LEAN CLAY, CL-HARD, ABUNDENT ROOTS, DRY			CL	4.5	PID=0 ppm $\alpha=0$ ppm BI=160-200 cpm
1.0	015629 05/03/89 00:00	7 5 6	N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A	
1.5	015630 05/03/89 15:30	7 5 10	6	VERY STIFF, LIGHT BROWNISH GRAY (10 YR, 6/2) CLAY, CL-DRY, MASSIVE, MOTTLED, RARE ROOTS, LEAN WITH SOME SILT.			CL	2.1-2	PID=0 ppm $\alpha=0$ ppm BI=120-160 cpm
2.0	015631 05/03/89 00:00	7 5 10	N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A	
2.5	015632 05/03/89 00:00	7 5 10	N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A	
3.0	015633 05/03/89 00:00	7 9 10	N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A	
3.5	015634 05/03/89 00:00	7 9 10	N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A	
4.0	015635 05/03/89 15:35	7 9 10	5	VERY STIFF TO HARD, DARK GRAYISH BROWN. (10 YR, 4/2) CLAY, CL-DRY, MOTTLED, MASSIVE, MEDIUM PLASTIC			CL	2.6-4	PID=0 ppm $\alpha=0$ ppm BI=120-140 cpm
4.5	015636 05/03/89 15:40	4 7 3	3	STIFF, DARK GRAYISH BROWN (10 YR, 4/2) CLAY, CL-DRY, MOTTLED, MASSIVE, MEDIUM PLASTIC			CL	1.4-1	PID=0 ppm $\alpha=0$ ppm BI=140-160 cpm
5.0	015637 05/03/89 00:00	4 7 3	N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A	
5.5	015638 05/03/89 00:00	4 7 3	N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A	
6.0	015639 05/03/89 16:05	3 6 7	6	STIFF, DARK YELLOWISH BROWN (10 YR, 3/4), MEDIUM PLASTIC LEAN CLAY, - DRY, MASSIVE, RARE GRAVEL.			CL	1.2	PID=0 ppm $\alpha=0$ ppm BI=140-180 cpm
NOTES:									
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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION								
BORING NUMBER: 1134					COORDINATES: NORTH 480745.16 EAST 1379849.31								
GROUND ELEVATION: 579.8					GWL: Depth	Date/Time		DATE STARTED: 03-MAY-89					
ENGINEER/GEOLOGIST: L. SINFIELD					Depth	Date/Time		DATE COMPLETE: 04-MAY-89					
DRILLING METHOD: AUGER													
D E P T H	S A M P L E	D A T E E E	B L O W S P L E O N	T I M E E R Y	R E C O V E R H E S	I N C H E S	S U Y S M C B S O L	T S F	REMARKS				
6.5	015640 05/03/89 00:00	3 6 7		N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A				
7.0	015641 05/03/89 00:00	3 6 7		N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A				
7.5	015642 05/03/89 16:10	5 10 15		15	SOFT AT TOP TO HARD AT BASE, MOTTLED GRAY (10 YR 6/1) TO BROWNISH YELLOW (10 YR 6/6) CLAY, MED PLASTIC, DRY, MASSIVE			CL	>4.5	PID=0 ppm $\alpha=0$ ppm $BI=180-220$ cpm			
8.0	015643 05/03/89 16:10	5 10 15		15	SOFT AT TOP TO HARD AT BASE, MOTTLED GRAY (10 YR 6/1) TO BROWNISH YELLOW (10 YR 6/6) CLAY, MED PLASTIC, DRY, MASSIVE			CL	>4.5	PID=0 ppm $\alpha=0$ ppm $BI=180-220$ cpm			
8.5	015644 05/03/89 16:10	5 10 15		15	SOFT AT TOP TO HARD AT BASE, MOTTLED GRAY (10 YR 6/1) TO BROWNISH YELLOW (10 YR 6/6) CLAY, MED PLASTIC, DRY, MASSIVE			CL	>4.5	PID=0 ppm $\alpha=0$ ppm $BI=180-220$ cpm			
9.0	015645 05/03/89 16:15	10 9 9		6	VERY STIFF, SOFT AT TOP TO HARD AT BASE, MOTTLED GRAY (10 YR 6/1) TO BROWNISH YELLOW (10 YR 6/6) CLAY, MED PLASTIC, DRY, MASSIVE			CL	2.5-3	PID=0 ppm $\alpha=0$ ppm $BI=180-120$ cpm			
9.5	015646 05/03/89 00:00	10 9 9		N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A				
10.0	015647 05/03/89 00:00	10 9 9		N/A	NO RECOVERY, NO SAMPLE TAKEN			N/A	N/A				
10.5	015648 05/03/89 16:40	4 6 9		18	SATURATED, SAND, LOOSE BROWNISH YELLOW (10 YR 6/6), MASSIVE FINE SAND			SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=160-200$ cpm			
11.0	050649 05/03/89 16:40	4 6 9		18	SATURATED, SAND, LOOSE BROWNISH YELLOW (10 YR 6/6), MASSIVE FINE SAND			SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=160-200$ cpm			
11.5	050650 05/03/89 16:40	4 6 9		18	SATURATED, SAND, LOOSE BROWNISH YELLOW (10 YR 6/6), MASSIVE FINE SAND			SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=160-200$ cpm			
12.0	055171 05/08/89 15:40	6		18	SATURATED, FINE SAND, LOOSE, BROWNISH YELLOW (10 YR 6/6), MASSIVE			SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=120-160$ cpm			
14.0	055172 05/08/89 15:40	9		18	SATURATED, FINE SAND, LOOSE, BROWNISH YELLOW (10 YR 6/6), MASSIVE			SM	N/A	PID=0 ppm $\alpha=0$ ppm $BI=120-160$ cpm			
14.5													
15.0													
NOTES:													
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable													

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FEMP-OU02-4 DRAFT

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PROJECT NUMBER: 602 3.7				PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION					
BORING NUMBER: 1134				COORDINATES: NORTH 480745.16 EAST 1379849.31			DATE:03-MAY-89		
GROUND ELEVATION: 579.8				GWL: Depth	Date/Time		DATE STARTED: 03-MAY-89		
ENGINEER/GEOLOGIST: L. SINFIELD				Depth	Date/Time		DATE COMPLETE: 04-MAY-89		
DRILLING METHOD: AUGER									
D E P T H	S A M P L E E	D A T E M E E S	B L O W S P L E N O N	R E C O V E R Y	I N C H E E S	S U S M C B S O L	T S F	REMARKS	
15.0	050657 05/04/89 09:45	6	18	SATURATED, SAND, LOOSE BROWNISH YELLOW (10 YR 6/6) MASSIVE FINE SAND			SM	N/A	PID=0 ppm α =0 ppm BR=120-160 cpm
15.5	050658 05/04/89 09:45	9	18	SATURATED, SAND, LOOSE BROWNISH YELLOW (10 YR 6/6) MASSIVE FINE SAND			SM	N/A	PID=0 ppm α =0 ppm BR=120-160 cpm
16.0	050659 05/04/89 09:45	10	18	SATURATED, SAND, LOOSE BROWNISH YELLOW (10 YR 6/6) MASSIVE FINE SAND. CLAY, GRAY (10 YR 4/1) LEAN DRY, M PLASTIC, MASSIVE.			CL	3.5	PID=0 ppm α =0 ppm BR=120-160 cpm
NOTES:									
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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1176					COORDINATES: NORTH 480705.79 EAST 1379852.67			DATE: 08-MAY-89	
GROUND ELEVATION: 579.7					GWL: Depth	Date/Time		DATE STARTED: 08-MAY-89	
ENGINEER/GEOLOGIST: C.GRUBE/L.ADAMS					Depth	Date/Time		DATE COMPLETE: 08-MAY-89	
DRILLING METHOD: AUGER									
D E P T H	S A M P L E	D A T E M O D E	B L O W S A M P L E O N	R E C O V E R Y	I N C H E S		S U S Y M C B S O L	T S F	REMARKS
.5	016441 05/08/89 10:49	2	6		MEDIUM STIFF, DARK YELLOWISH BROWN (10 YR 4/4) CLAY, SOME GRASS AND ROOTS, MEDIUM PLASTICITY, MOIST.		CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-100$ cpm
1.0	016442 05/08/89 10:49	5	5		MEDIUM STIFF, DARK YELLOWISH BROWN (10 YR 4/4) CLAY, SOME GRASS AND ROOTS, MEDIUM PLASTICITY, MOIST.		CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-100$ cpm
1.0 1.5	016443 05/08/89 10:49	7	N/A		NO RECOVERY		N/A	N/A	
1.5 2.0	016444 05/08/89 10:53	5	6		STIFF, YELLOWISH BROWN (10 YR 4/6) SILTY CLAY, SOME COARSE SAND, TRACE FINE GRAVEL, MOIST.		CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm
2.0 2.5	016445 05/08/89 10:53	22	6		VERY STIFF, DARK YELLOWISH BROWN (10 YR 4/4) SILTY CLAY, TRACE COARSE SAND, LOW PLASTICITY, MOIST.		CL	3.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm
2.5 3.0	016446 05/08/89 10:53	16	N/A		NO RECOVERY		N/A	N/A	
3.0 3.5	016447 05/08/89 11:00	16	6		VERY STIFF YELLOWISH BROWN (10 YR 5/4) SILTY CLAY, TRACE FINE GRAVEL AND SAND, LOW PLASTICITY, MOIST. VERY STIFF, DARK BROWN (10 YR 3/3) CLAY, LOW TO MEDIUM PLASTICITY, MOIST.		CL	3.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-70$ cpm
3.5 4.0	016448 05/08/89 11:00	17	6		VERY STIFF YELLOWISH BROWN (10 YR 5/4) SILTY CLAY, TRACE FINE GRAVEL AND SAND, LOW PLASTICITY, MOIST. VERY STIFF, DARK BROWN (10 YR 3/3) CLAY, LOW TO MEDIUM PLASTICITY, MOIST.		CL	2.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-70$ cpm
4.0 4.5	016449 05/08/89 11:00	21	N/A		NO RECOVERY		N/A	N/A	
4.5 5.0	016450 05/08/89 13:10	17	6		STIFF, DARK BROWN (10 YR 3/3) CLAY, LOW TO MEDIUM PLASTICITY, MOIST.		CL	1.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-100$ cpm
5.0 5.5	016451 05/08/89 13:10	16	6		STIFF, YELLOWISH BROWN (10 YR 5/4) SILTY CLAY, TRACE SAND, MEDIUM PLASTICITY, MOIST.		CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-100$ cpm
5.5 6.0	016452 05/08/89 13:10	15	5		STIFF, YELLOWISH BROWN (10 YR 5/4) SILTY CLAY, TRACE SAND, MEDIUM PLASTICITY, MOIST.		CL	2.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-100$ cpm
6.0 6.5	016453 05/08/89 13:17	12	6		STIFF, YELLOWISH BROWN (10 YR 5/4) SILTY CLAY, TRACE SAND, MEDIUM PLASTICITY, VERY MOIST TO WET.		CL	1.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=50-60$ cpm
NOTES:									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 602 3.7				PROJECT NAME: CRU2 PHASE I FIELD INVESTIGATION				
BORING NUMBER: 1176				COORDINATES: NORTH 480705.79 EAST 1379852.67 DATE: 08-MAY-89				
GROUND ELEVATION: 579.7				GWL: Depth	Date/Time	DATE STARTED: 08-MAY-89		
ENGINEER/GEOLOGIST: C.GRUBE/L.ADAMS				Depth	Date/Time	DATE COMPLETE: 08-MAY-89		
DRILLING METHOD: AUGER								
DEPTH	SAMPLES	BLOW COUNT	RECOVERY	INCHES		SYSMCSOL	TSF	REMARKS
6.5 7.0	016454 05/08/89 13:17	7	4	STIFF, YELLOWISH BROWN (10 YR 5/4) SILTY CLAY, TRACE SAND, MEDIUM PLASTICITY, VERY MOIST TO WET.	CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=50-60$ cpm	
7.0 7.5	016455 05/08/89 13:17	6	N/A	NO RECOVERY	N/A	N/A		
7.5 8.0	016456 05/08/89 13:30	4 6		VERY SOFT, YELLOWISH BROWN (10 YR 5/6), SILTY CLAY, TRACE SAND, WET.	CL	.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm	
8.0 8.5	016457 05/08/89 13:30	3 6		SOFT, OLIVE GRAY (5 Y 4/2) CLAY, TRACE SAND AND SILT, MEDIUM PLASTICITY, VERY MOIST.	CL	.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm	
8.5 9.0	016458 05/08/89 13:30	4 2		LOOSE, YELLOWISH BROWN (10 YR 5/6) SILTY SAND, TRACE GRAVEL (1.0 - 1.5 IN), MOIST.	SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm	
9.0 9.5	016459 05/08/89 14:45	5 6		MEDIUM STIFF, DARK BROWN (10 YR 3/3) SILTY CLAY, LOW PLASTICITY, MOIST.	CL	.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm	
9.5 10.0	016460 05/08/89 14:45	3 6		LOOSE, YELLOWISH BROWN (10 YR 5/6) SILTY SAND, TRACE FINE GRAVEL, POORLY GRADED, WET.	SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm	
10.0 10.5	016461 05/08/89 14:45	4 N/A		NO RECOVERY	N/A	N/A		
10.5 11.0	016462 05/08/89 14:55	12 6		MEDIUM DENSE, YELLOWISH BROWN (10 YR 5/6) POORLY GRADED SAND, WET.	SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm	
11.0 11.5	055164 05/08/89 14:55	10 6		MEDIUM DENSE, YELLOWISH BROWN (10 YR 5/6) WELL GRADED SAND, WET. MEDIUM DENSE, YELLOWISH BROWN (10 YR 5/6) SILT, TRACE SAND, VERY MOIST.	SWML	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm	
11.5 12.0	050660 05/08/89 14:55	13 6		STIFF, GRAY (5 Y 5/1) SILTY CLAY, TRACE FINE GRAVEL, MOIST.	CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-80$ cpm	
<p>NOTES:</p> <p>SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>								

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PROJECT NUMBER: 602 3.7					PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1210					COORDINATES: NORTH 480485.42 EAST 1379844.46						
GROUND ELEVATION: 578.91					GWL: Depth	Date/Time		DATE STARTED: 03-MAY-89			
ENGINEER/GEOLOGIST: TROLLINGER/GRUB					Depth	Date/Time		DATE COMPLETE: 03-MAY-89			
DRILLING METHOD: AUGER											
DEPTH	SAMPLE	TIME	BLOW COUNT	RECOVERY	TESTS	SYNTHETIC MATERIAL CERAMIC SOIL	TSF	REMARKS			
	DEEPE	SAMPLE	ON	RECOVERY							
.5	017189 05/03/89 10:00	2		12	VERY STIFF, BROWN (10 YR 3/3) SILTY CLAY, TRACE OF ORGANICS (GRASS, ROOTS), LOW PLASTICITY, MOIST.	CL	2.5	PID=0.0-0.2 ppm $\alpha=0$ ppm BT=80 cpm			
.5	017190 05/03/89 10:00	6		12	VERY STIFF, BROWN, (10 YR 3/3), SILTY CLAY, TRACE OF FINE GRAVEL, LOW PLASTICITY, MOIST.	CL	3.5	PID=0.0-0.2 ppm $\alpha=0$ ppm BT=80 cpm			
1.0	017191 05/03/89 10:00	15	N/A	NO RECOVERY		N/A	N/A				
1.5	017192 05/03/89 10:07	7		12	VERY STIFF, BROWN, (10 YR 4/4) SILTY CLAY, TRACE OF FINE GRAVEL, LOW PLASTICITY, MOIST.	CL	4.0	PID=0.2 ppm $\alpha=0$ ppm BT=80 cpm			
2.0	017193 05/03/89 10:07	11		12	VERY STIFF, BROWN (10 YR 4/4), SILTY CLAY, TRACE OF SAND AND FINE GRAVEL, LOW PLASTICITY, MOIST.	CL	3.0	PID=0.2 ppm $\alpha=0$ ppm BT=80 cpm			
2.5	017194 05/03/89 10:07	15	N/A	NO RECOVERY		N/A	N/A				
3.0	017195 05/03/89 10:14	9		14	VERY STIFF, YELLOWISH BROWN (10 YR 5/6), SILTY CLAY, TRACE OF FINE GRAVEL, LOW PLASTICITY, MOIST.	CL	4.0	PID=0.2 ppm $\alpha=0$ ppm BT=80 cpm			
3.5	017196 05/03/89 10:14	18		14	VERY STIFF, YELLOWISH BROWN (10 YR 5/6) TO GRAY (10 YR 5/1), CLAY, MEDIUM PLASTICITY, MOIST (2 IN. RECOV. ON 17197)	CL	3.0	PID=0.2 ppm $\alpha=0$ ppm BT=80 cpm			
4.0	017197 05/03/89 10:14	25		14	VERY STIFF, YELLOWISH BROWN (10 YR 5/6) TO GRAY (10 YR 5/1), CLAY, MEDIUM PLASTICITY, MOIST (2 IN. RECOV. ON 17197)	CL	2.0	PID=0.2 ppm $\alpha=0$ ppm BT=80 cpm			
4.5	017198 05/03/89 10:23	19		15	STIFF, YELLOWISH BROWN, (10 YR 5/4), CLAY, MEDIUM PLASTICITY, MOIST.	CL	1.75	PID=0.2 ppm $\alpha=0$ ppm BT=80 cpm			
5.0	017199 05/03/89 10:23	23		15	STIFF, YELLOWISH BROWN, (10 YR 5/4), CLAY, TRACE OF COARSE SAND, MEDIUM PLASTICITY, MOIST. (3 IN RECOV. ON 17200)	CL	1.50	PID=0.2 ppm $\alpha=0$ ppm BT=80 cpm			
5.5	017200 05/03/89 10:23	26		15	STIFF, YELLOWISH BROWN, (10 YR 5/4), CLAY, TRACE OF COARSE SAND, MEDIUM PLASTICITY, MOIST. (3 IN RECOV. ON 17200)	CL	1.50	PID=0.2 ppm $\alpha=0$ ppm BT=80 cpm			
6.0	017201 05/03/89 13:25	3		18	VERY STIFF, OLIVE GRAY (5 Y 5/2) TO YELLOWISH BROWN, (10 YR 4/6) SILTY CLAY, LOW TO MEDIUM PLASTICITY, MOIST.	CL	3.25	PID=0.2 ppm $\alpha=0$ ppm BT=80 cpm			
NOTES:											
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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 FEMP-OU02-4 DRAFT
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PROJECT NUMBER: 602 3.7				PROJECT NAME: CRUZ PHASE I FIELD INVESTIGATION						
BORING NUMBER: 1210				COORDINATES: NORTH 480485.42 EAST 1379844.46			DATE: 03-MAY-89			
GROUND ELEVATION: 578.91				GWL: Depth	Date/Time	DATE STARTED: 03-MAY-89				
ENGINEER/GEOLOGIST: TROLLINGER/GRUB				Depth	Date/Time	DATE COMPLETE: 03-MAY-89				
DRILLING METHOD: AUGER										
D E P T H	S A M P L E	D A T E E	B L O W S O N	R E C O V E R Y	I N C H E E S		S Y S M C B S O L	T S F	REMARKS	
6.5 7.0	017202 05/03/89 13:25	6	18	VERY STIFF, OLIVE GRAY (5 Y 5/2) TO YELLOWISH BROWN, (10 YR 4/6) SILTY CLAY, LOW TO MEDIUM PLASTICITY, MOIST.				CL	3.0	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
7.0 7.5	017203 05/03/89 13:25	7	18	MEDIUM DENSE, YELLOWISH BROWN, (10 YR 5/6) SILT, WET-SATURATED.				ML	N/A	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
7.5 8.0	017204 05/03/89 13:30	4	17	DENSE, BROWN (10 YR 5/3) CLAYEY SILT, SATURATED.				ML	N/A	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
8.0 8.5	017205 05/03/89 13:30	14	17	DENSE, YELLOWISH BROWN (10 YR 5/6) SILT, WET.				ML	N/A	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
8.5 9.0	017206 05/03/89 13:30	18	17	DENSE, YELLOWISH BROWN (10 YR 5/6) SILT, WET.				ML	N/A	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
9.0 9.5	017207 05/03/89 13:35	10	18	MEDIUM DENSE, YELLOWISH BROWN, (10 YR 5/6), SILT, WET.				ML	N/A	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
9.5 10.0	017208 05/03/89 13:35	16	18	MEDIUM DENSE, YELLOWISH BROWN, (10 YR 5/6), SILT, WET.				ML	N/A	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
10.0 10.5	017209 05/03/89 13:35	19	18	VERY STIFF, YELLOWISH BROWN (10 YR 5/6) SILTY CLAY, MOIST.				CL	2.75	PID=0.2 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
NOTES:										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER:				PROJECT NAME: 5178					
BORING NUMBER: 1229				COORDINATES: NORTH 480262.59 EAST 1379834.54 DATE:					
GROUND ELEVATION: 577.87				GWL: Depth	Date/Time	DATE STARTED:			
ENGINEER/GEOLOGIST:				Depth	Date/Time	DATE COMPLETE:			
DRILLING METHOD: AUGER									
DEPTH	SAMPLE	ADDITIONAL TIME	BLOW COUNT	RECOVERY	INCHES	SYMBOL	TYPICAL SOIL	REMARKS	
.5	017607 05/01/89 10:25	9 19 27	8	NATURAL GRAVEL FILL, MEDIUM SIZE, WET FROM SURFACE WATER.			GP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100-110$ cpm
.5	017608 05/01/89 10:25	9 19 27	8	NATURAL GRAVEL FILL, MEDIUM SIZE, WET FROM SURFACE WATER.			GP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100-110$ cpm
1.0	017609 05/01/89 10:25	9 19 27	8	NATURAL GRAVEL FILL, MEDIUM SIZE, WET FROM SURFACE WATER.			GP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100-110$ cpm
1.5	017610 05/01/89 10:30	19 12 12	9	MEDIUM DENSE, YELLOWISH BROWN (10 YR 4/4) TO GRAY (10 YR 4/2) SANDY GRAVEL, WET FROM SURFACE WATER.			GW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100-110$ cpm
2.0	017611 05/01/89 10:30	19 12 12	9	MEDIUM DENSE, YELLOWISH BROWN (10 YR 4/4) TO GRAY (10 YR 4/2) SANDY GRAVEL, WET FROM SURFACE WATER.			GW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100-110$ cpm
2.5	017612 05/01/89 10:30	19 12 12	9	STIFF, GRAY (10 YR 4/1) CLAY, TRACE OF FINE GRAVEL, MEDIUM PLASTIC, WET FROM SURFACE WATER.			CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100-110$ cpm
3.0	017613 05/01/89 10:35	6 7 14	10	STIFF, GRAY (10 YR 4/1) CLAY, TRACE OF FINE GRAVEL, MEDIUM PLASTIC, WET FROM SURFACE WATER. VERY STIFF, GRAY (5 Y 4/2), CLAY, TRACE FINE GRAVEL, MEDIUM PLASTIC, MOIST.			CL	2.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100-120$ cpm
3.5	017614 05/01/89 10:35	6 7 14	10	STIFF, OLIVE GRAY (5 Y 4/3), CLAY, MEDIUM PLASTIC, MOIST.			CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100-120$ cpm
4.0	017615 05/01/89 10:35	6 7 14	10	STIFF, OLIVE GRAY (5 Y 4/3), CLAY, MEDIUM PLASTIC, MOIST.			CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100-120$ cpm
4.5	017616 05/01/89 10:43	13 17 26	10	STIFF, YELLOWISH BROWN (10 YR 5/6), CLAY, TRACE SAND, MEDIUM PLASTIC, MOIST.			CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-100$ cpm
5.0	017617 05/01/89 10:43	13 17 26	10	STIFF, YELLOWISH BROWN (10 YR 5/6), CLAY, TRACE SAND, MEDIUM PLASTIC, MOIST.			CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-100$ cpm
5.5	017618 05/01/89 10:43	13 17 26	10	STIFF, YELLOWISH BROWN (10 YR 5/6), CLAY, TRACE SAND, MEDIUM PLASTIC, MOIST.			CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-100$ cpm
6.0	017619 05/01/89 13:40	6 12 19	16	VERY STIFF, LIGHT OLIVE BROWN (5 Y 5/4), CLAY, LOW TO MEDIUM PLASTIC, MOIST.			CL	3.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-110$ cpm
NOTES:								SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER:					PROJECT NAME:						
BORING NUMBER: 1229					COORDINATES: NORTH 480262.59 EAST 1379834.54 DATE:						
GROUND ELEVATION: 577.87					GWL: Depth Date/Time DATE STARTED:						
ENGINEER/GEOLOGIST:					Depth Date/Time DATE COMPLETE:						
DRILLING METHOD: AUGER											
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M W S P L E	R E C O V R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS	
6.5 7.0.	017620 05/01/89 13:40	6 12 19	16	VERY STIFF, LIGHT OLIVE BROWN (5 Y 5/4), CLAY, LOW TO MEDIUM PLASTIC, MOIST.					CL	3.5	PID=0 ppm $\alpha=0$ ppm BT=80-110 cpm
7.0. 7.5	017621 05/01/89 13:40	6 12 19	16	VERY STIFF, LIGHT OLIVE BROWN (5 Y 5/4), CLAY, LOW TO MEDIUM PLASTIC, MOIST.					CL	3.5	PID=0 ppm $\alpha=0$ ppm BT=80-110 cpm
7.5 8.0	017622 05/01/89 13:45	14 16 22	7	STIFF, YELLOWISH BROWN (10 YR 5/6), SILTY CLAY, LOW PLASTIC, MOIST.					CL	1.5	PID=0 ppm $\alpha=0$ ppm BT=100-120 cpm
8.0 8.5	017623 05/01/89 13:45	14 16 22	7	STIFF, YELLOWISH BROWN (10 YR 5/6), SILTY CLAY, LOW PLASTIC, MOIST.					CL	1.5	PID=0 ppm $\alpha=0$ ppm BT=100-120 cpm
8.5 9.0	017624 05/01/89 13:45	14 16 22	7	STIFF, YELLOWISH BROWN (10 YR 5/6), SILTY CLAY, LOW PLASTIC, MOIST.					CL	1.5	PID=0 ppm $\alpha=0$ ppm BT=100-120 cpm
9.0 9.5	017625 05/01/89 14:15	18 20 32	N/A	NO RECOVERY					N/A	N/A	
9.5 10.0	017626 05/01/89 14:15	18 20 32	N/A	NO RECOVERY					N/A	N/A	
10.0 10.5	017627 05/01/89 14:15	18 20 32	N/A	NO RECOVERY					N/A	N/A	
10.5 11.0	017628 05/01/89 14:30	8 6 10	18	STIFF, YELLOWISH BROWN (10 YR 5/6), SILTY CLAY, TRACE SAND MEDIUM GRAVEL, LOW PLASTICITY, MOIST.					CL	1.0	PID=0 ppm $\alpha=0$ ppm BT=80-100 cpm
11.0 11.5	050627 05/01/89 14:30	8 6 10	18	MEDIUM DENSE, CLAYEY SILTS, YELLOWISH BROWN (10 YR 5/6), WET.					ML	N/A	PID=0 ppm $\alpha=0$ ppm BT=80-100 cpm
11.5 12.0	050628 05/01/89 14:30	8 6 10	18	MEDIUM STIFF, GRAY (5 Y 5/1) CLAY, TRACE COARSE SAND, TRACE MEDIUM GRAVEL, WET. GRAY-BROWN (10 YR 5/2) CLAY IN END OF SPOON.					CL	0.75	PID=0 ppm $\alpha=0$ ppm BT=80-100 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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FEMP-OU02-4 DRAFT

February 18, 1994

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1934			COORDINATES: NORTH 480394.07 EAST 1379744.81			DATE: 01-MAY-93			
GROUND ELEVATION: 577.81			GWL: Depth Date/Time			DATE STARTED: 01-MAY-93			
ENGINEER/GEOLOGIST: B MUELLER			Depth Date/Time			DATE COMPLETE: 04-MAY-93			
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A D T E	B L O W L E	S A M P E	R E C O V E R Y	I N C H E S		S U S M B S O L	T S F	REMARKS
.5	111175 05/01/93 15:05	10	6		NA, (10YR, 4/4) DARK YELLOWISH BROWN, SANDY SILTY CLAY, LOW PLASTICITY, MOIST		CL	N/A	PID=0 ppm α =0 ppm BT=70 cpm
.5	111176 05/01/93 15:05	14	6		HARD, (2.5Y, 5/6) LIGHT OLIVE BROWN, SILTY CLAY, SAND LOW PLASTICITY, MOIST		CL	4.5	PID=0 ppm α =0 ppm BT=70 cpm
1.0	111177 05/01/93 15:05	12	4		SAA		CL	4.5	PID=0 ppm α =0 ppm BT=70 cpm
1.5	05/01/93 15:05	5	0		NO RECOVERY		N/A	N/A	PID=0 ppm α =0 ppm BT=70 cpm
2.0	111178 05/01/93 15:10	10	6		STIFF, (2.5Y, 5/4) LIGHT OLIVE BROWN, SANDY SILTY CLAY, LOW PLASTICITY, MOIST		CL	2	PID=0 ppm α =0 ppm BT=90 cpm
2.5	111179 05/01/93 15:10	14	6		VERY STIFF, (10YR, 4/3) BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST		CL	2.5	PID=0 ppm α =0 ppm BT=90 cpm
3.0	111180 05/01/93 15:10	14	6		SAA		CL	2.5	PID=0 ppm α =0 ppm BT=90 cpm
3.5	111181 05/01/93 15:10	12	6		SAA		CL	3	PID=0 ppm α =0 ppm BT=90 cpm
4.0	111182 111183 111184 05/01/93 15:30	15	6		VERY STIFF, (2.5Y, 6/3) LIGHT YELLOWISH BROWN, SILTY CLAY, TRACE SAND, ORANGE MOTTLES, MEDIUM PLASTICITY, MOIST		CL	3.0	PID=0 ppm α =0 ppm BT=100 cpm
4.5	111182 111183 111184 05/01/93 15:30	15	6		SAA		CL	3.5	PID=0 ppm α =0 ppm BT=100 cpm
5.0	111182 111184 111183 05/01/93 15:30	20	6		SAA		CL	3.0	PID=0 ppm α =0 ppm BT=100 cpm
5.5									
NOTES:									
Driller: DAN JAMISON Drilling Equipment: MOBIL B80									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1934					COORDINATES: NORTH 480394.07 EAST 1379744.81			DATE: 01-MAY-93			
GROUND ELEVATION: 577.81					GWL: Depth	Date/Time	DATE STARTED: 01-MAY-93				
ENGINEER/GEOLOGIST: B MUELLER					Depth	Date/Time	DATE COMPLETE: 04-MAY-93				
DRILLING METHOD: HOLLOW STEM AUGER											
D E P T H	S A M P L E	D A T E E E	T M E S P L E	B L O W S P L E O N	R E C O V R Y	I N C H E S	S U S M C B S O L	T S F	REMARKS		
						SAA					
5.5	111183 05/01/93 15:30	111184 05/01/93 15:30	21	6				CL	2.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=100$ cpm	
6.0	111185 05/01/93 15:52	111186 05/01/93 15:52	5	6	VERY STIFF, (2.5Y,5/6) LIGHT OLIVE BROWN, SILTY CLAY, TRACE SAND, ORANGE MOTTLES, LOW PLASTICITY, MOIST			CL	3.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
6.5	111187 05/01/93 15:52	111188 05/01/93 16:00	8	6	SAA			CL	3.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
7.0	111189 05/01/93 15:52	111187 05/01/93 15:52	9	6	SAA INCREASE LESS SILT AT 1" HORIZON			CL	2.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
7.5	111188 05/01/93 16:00	111188 05/01/93 16:00	5	6	VERY STIFF, (2.5Y,5/6) LIGHT OLIVE BROWN, SILTY CLAY, TRACE ORANGE MOTTLES, MEDIUM PLASTICITY, MOIST			CL	2.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
8.0	114517 05/01/93 16:00	114518 05/01/93 16:00	9	6	SAA			CL	4.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
8.5	114518 05/01/93 16:00	114519 05/01/93 16:06	8	6	VERY STIFF, (2.5Y,5/2) GRAYISH BROWN, SILTY CLAY, ORANGE MOTTLES, INCREASED SILT TOWARD BOTTOM, LOW PLASTICITY, MOIST			CL	2.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
9.0	114519 05/01/93 16:06	114520 05/01/93 16:06	4	6	STIFF, (10YR,5/4) YELLOWISH BROWN, SILTY CLAY, LOW-MEDIUM PLASTICITY, MOIST			CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=90$ cpm	
9.5	114520 05/01/93 16:06	114521 05/01/93 16:06	5	6	SOFT, SAA			CL	0.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=90$ cpm	
10.0	114521 05/01/93 16:06	114522 05/01/93 16:17	5	3	SOFT, (2.5Y,5/2) GRAYISH BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=90$ cpm	
10.5	114522 05/01/93 16:17	114523 05/01/93 16:17	5	6	STIFF, (2.5Y,5/2) LIGHT OLIVE BROWN, SILTY CLAY, LOW PLASTICITY, MOIST			CL	1.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
11.0	114523 05/01/93 16:17	114523 05/01/93 16:17	6	6	STIFF, (5Y, 5/1) GRAY, SILTY CLAY, INCREASED SILT AT SOME HORIZONS, LOW PLASTICITY, VERY MOIST			CL	1.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
11.5	05/01/93 16:17	05/01/93 16:17	8	0	NO RECOVERY			N/A	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	

NOTES:

Driller: DAN JAMISON
Drilling Equipment: MOBIL 880SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

02/02/94 14:10

PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1934					COORDINATES: NORTH 480394.07 EAST 1379744.81				
GROUND ELEVATION: 577.81					GWL: Depth	Date/Time		DATE STARTED: 01-MAY-93	
ENGINEER/GEOLOGIST: B MUELLER					Depth	Date/Time		DATE COMPLETE: 04-MAY-93	
DRILLING METHOD: HOLLOW STEM AUGER									
DEPTH	SAMPLE	DATE	BLOWS	RECOVERY	TESTS	SYNTHETIC MATERIALS	TESTS	REMARKS	
	PILE	TIME	LOAM	SAND	COHESION	CBR	SOL		
12.0 12.5	114524 05/01/93 16:29	2	6	6	VERY STIFF, (2.5Y,5/3) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST	CL	.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm	
12.5 13.0	114525 05/01/93 16:29	3	6	6	STIFF, (2.5Y,5/2) OLIVE GRAY, SILTY CLAY, LOW PLASTICITY, VERY MOIST	CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm	
13.0 13.5	05/01/93 16:29	3	0	NO RECOVERY		N/A	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm	
13.5 14.0	114526 05/02/93 09:05	6	6	6	VERY SOFT, (2.5Y,5/2) GRAYISH BROWN, SILTY CLAY, MEDIUM PLASTICITY, VERY MOIST	CL	.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=90$ cpm	
14.0 14.5	114527 05/02/93 09:05	6	6	6	SAA	CL	.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=90$ cpm	
14.5 15.0	114528 05/02/93 09:05	12	6	6	STIFF, SAA, MOIST	CL	1.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=90$ cpm	
15.0 15.5	114529 05/02/93 09:12	4	6	6	VERY SOFT, (2.5Y,5/2) GRAYISH BROWN, SILTY CLAY, MODERATE PLASTICITY, MOIST	CL	.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=90-100$ cpm	
15.5 16.0	114530 05/02/93 09:12	8	6	6	STIFF, SAA	CL	1.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=90-100$ cpm	
16.0 16.5	114531 05/02/93 09:12	8	6	6	STIFF, SAA	CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=90-100$ cpm	
16.5 17.0	114532 05/02/93 09:20	5	6	6	SAA, MEDIUM STIFF, AND 1" SILTY FINE SAND, WET, HORIZON	CL	.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-90$ cpm	
17.0 17.5	114533 05/02/93 09:20	8	6	6	STIFF, SAA	CL	1.0	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-90$ cpm	
17.5 18.0	114534 05/02/93 09:20	2	6	6	STIFF, SAA	CL	1.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80-90$ cpm	
18.0 18.5	114535 05/02/93 09:28	1	6	6	VERY STIFF, (2.5Y,5/4) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST	CL	.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=90$ cpm	

NOTES:

Driller: DAN JAMISON
Drilling Equipment: MOBIL B80SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1934					COORDINATES: NORTH 480394.07 EAST 1379744.81 DATE: 01-MAY-93					
GROUND ELEVATION: 577.81					GWL: Depth Date/Time DATE STARTED: 01-MAY-93					
ENGINEER/GEOLOGIST: B MUELLER					Depth Date/Time DATE COMPLETE: 04-MAY-93					
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A M P L E	D A T E E E	B L O W S O N	S A M P L E R E Y	I N C O V E R Y		S U Y S M C B S O L	T S F	REMARKS	
18.5	114536	1		6	SOFT, (2.5Y, 5/2) GRAYISH BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	.25	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
19.0	05/02/93				NO RECOVERY			N/A	N/A	
19.5	05/02/93	3		0	VERY SOFT, SAA			CL	.25	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=70-80$ cpm
20.0	05/02/93	3		6	VERY SOFT, SAA			CL	.25	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=70-80$ cpm
20.5	05/02/93	3		6	SOFT, SAA			CL	.25	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=70-80$ cpm
21.0	05/02/93	8		6						
NOTES:										Driller: DAN JAMISON Drilling Equipment: MOBIL 880
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1937				COORDINATES: NORTH 480645.51 EAST 1379534.49			DATE: 28-APR-93		
GROUND ELEVATION: 576.81				GWL: Depth 1.82 Date/Time 01-May-93 10:20			DATE STARTED: 28-APR-93		
ENGINEER/GEOLOGIST: B E MULLER				Depth Date/Time			DATE COMPLETE: 30-APR-93		
DRILLING METHOD: HOLLOW STEM AUGER									
D E P T H	S A M P L E	D A T E E	T I M E E	B L O W S O N	R E C O V E R Y	I N C H E R Y	S U Y S M C B S O L	T S F	REMARKS
.5	111138 04/28/93 11:30	1	6	VERY SOFT, (10YR,3/3) DARK BROWN, CLAY WITH TRACE COARSE SAND, MOIST			CL	0.25	PID=0 ppm α =0 ppm $\beta\Gamma$ =60 cpm
.5	111139 04/28/93 11:30	4	6	HARD, (10YR,6/4) LIGHT YELLOWISH BROWN, SILTY CLAY WITH TRACE MED.- COARSE SAND, MOIST			CL	4.25	PID=0 ppm α =0 ppm $\beta\Gamma$ =60 cpm
1.0	111140 04/28/93 11:30	13	2	SAA			CL	4.50	PID=0 ppm α =0 ppm $\beta\Gamma$ =60 cpm
1.5	04/28/93 11:30	13	0				N/A	N/A	
2.0	111141 111142 111143 04/28/93 11:40	11	6	VERY STIFF, (2.5Y,6/4) LIGHT OLIVE BROWN, SILTY CLAY, WITH TRACE MED-COARSE SAND, MOIST			CL	3.0	PID=0 ppm α =0 ppm $\beta\Gamma$ =80 cpm
2.5	111141 111142 111143 04/28/93 11:40	N/A 14	6	VERY STIFF, (10YR,6/6) BROWNISH YELLOW, SILTY CLAY, TRACE MEDIUM FINE SAND, MOIST			N/A CL	3.0	PID=0 ppm α =0 ppm $\beta\Gamma$ =80 cpm
3.0	111141 111142 111143 04/28/93 11:40	N/A 21	6	HARD, SAA, INCREASE SILT AND TRACE ORANGE MOTTLES			CL	4.5	PID=0 ppm α =0 ppm $\beta\Gamma$ =80 cpm
3.5	111141 111142 111143 04/28/93 11:40	32	0				N/A	N/A	
4.0	111144 04/28/93 13:30	3	6	VERY STIFF, (2.5Y,5/2) GRAYISH BROWN, SILTY CLAY, MOIST			CL	2.5	PID=0 ppm α =0 ppm $\beta\Gamma$ =70 cpm
4.5	111145 04/28/93 13:30	5	5	SAA			CL	2.75	PID=0 ppm α =0 ppm $\beta\Gamma$ =70 cpm
5.0	04/28/93 13:30	7	6				N/A	N/A	
NOTES: THE TOP GIN SECTION OF RISER IS BENT AND NEED TO BE REPLACED.									Driller: DAN JAMISON Drilling Equipment: MOBIL B80
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 1937				COORDINATES: NORTH 480645.51 EAST 1379534.49			DATE: 28-APR-93			
GROUND ELEVATION: 576.81				GWL: Depth 1.82 Date/Time 01-May-93 10:20			DATE STARTED: 28-APR-93			
ENGINEER/GEOLOGIST: B E MULLER				Depth	Date/Time		DATE COMPLETE: 30-APR-93			
DRILLING METHOD: HOLLOW STEM AUGER										
D E P T H	S A D M P L E	D A I T M E E	B L O W S P L E	R A C O V R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS	
5.5 6.0	111146 04/28/93 13:35	10	6	VERY STIFF, (5Y,5/6) OLIVE, SILTY CLAY, MOIST				CL	3.5	PID=0 ppm $\alpha=0$ ppm BT=70 cpm
6.0 6.5	111147 04/28/93 13:35	14	6	SAA				CL	3.5	PID=0 ppm $\alpha=0$ ppm BT=70 cpm
6.5 7.0	111148 04/28/93 13:35	14	3	SAA				CL	3.0	PID=0 ppm $\alpha=0$ ppm BT=70 cpm
7.0 7.5	111149 04/28/93 13:40	5	6	STIFF, (2.5Y,5/4) LIGHT OLIVE BROWN SILTY CLAY, MOIST				CL	2.0	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
7.5 8.0	111150 04/28/93 13:40	7	6	VERY STIFF, SAA, (2.5,5/4) LIGHT OLIVE BROWN, SILTY CLAY MOIST				CL	2.75	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
8.0 8.5	111151 04/28/93 13:40	8	6	STIFF, SAA				CL	1.75	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
8.5 9.0	111152 04/28/93 13:50	5	6	STIFF, (2.5Y,5/3) LIGHT OLIVE BROWN, SILTY CLAY, MOIST				CL	1.5	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
9.0 9.5	111153 04/28/93 13:50	4	6	SAA & 1" SILTY LASER, WET				CL	1.75	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
9.5 10.0	111154 04/28/93 13:50	5	2	VERY SOFT, (2.5Y,6/2) LIGHT BROWNISH GRAY, SILTY CLAY, WET				CL	.25	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
10.0 10.5	111155 04/28/93 14:00	4	6	STIFF, (2.5Y,5/4) LIGHT OLIVE BROWN, SILTY CLAY, WET				CL	1.5	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
10.5 11.0	111156 04/28/93 14:00	5	6	VERY SOFT, SAA				CL	.25	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
11.0 11.5	111157 04/28/93 14:00	3	2	VERY SOFT, (2.5Y,5/1) GRAY, SILTY CLAY, WET				CL	.25	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
11.5 12.0	111158 04/28/93 14:10	4	6	VERY SOFT, (2.5Y,N4/1) DARK GRAY, SILTY CLAY, WET				CL	.25	PID=0 ppm $\alpha=0$ ppm BT=70 cpm
NOTES: THE TOP GIN SECTION OF RISER IS BENT AND NEED TO BE REPLACED.										
Driller: DAN JAMISON Drilling Equipment: MOBIL B80 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION			
BORING NUMBER: 1937				COORDINATES: NORTH 480645.51 EAST 1379534.49			
GROUND ELEVATION: 576.81				GWL: Depth 1.82 Date/Time 01-May-93 10:20			
ENGINEER/GEOLOGIST: B E MULLER				Depth	Date/Time		DATE COMPLETE: 30-APR-93
DRILLING METHOD: HOLLOW STEM AUGER							

D E P T H	S A M P L E	D A T E E N O N	T I M E E E R Y	B L O W S O N E	R E C O V E R Y	I N C H E S	S Y U S M C B S O L	T S F	REMARKS
12.0	111159 04/28/93 14:10	4		6	SAA		CL	.25	PID=0 ppm α =0 ppm BT=70 cpm
12.5	111160 04/28/93 14:10	6		6	LOOSE, (2.5Y,N4/1) DARK GRAY, WELL SORTED, FINE SAND AND SILT, WET		SM	N/A	PID=0 ppm α =0 ppm BT=70 cpm
13.0	111161 04/28/93 14:15	5		6	LOOSE, (2.5Y,N4/1) DARK GRAY, WELL SORTED, FINE SAND AND SILT, WET		SM	N/A	PID=0 ppm α =0 ppm BT=60 cpm
13.5	111162 04/28/93 14:15	8		6	SAA		SM	N/A	PID=0 ppm α =0 ppm BT=60 cpm
14.0	111163 04/28/93 14:15	8		2	SAA		SM	N/A	PID=0 ppm α =0 ppm BT=60 cpm
14.0	111164 04/30/93 09:05	8		6	MEDIUM DENSE, (2.5Y,6/2) LIGHT BROWNISH GRAY, SILTY FINE SAND, WET		SM	N/A	PID=1 ppm α =0 ppm BT=70 cpm
14.5	111165 04/30/93 09:05	9		6	MEDIUM DENSE, (2.5Y,6/2) LIGHT BROWNISH GRAY, SILTY FINE SAND, WET		SM	N/A	PID=1.0 ppm α =0 ppm BT=70 cpm
15.0	111166 04/30/93 09:05	15		6	SAA		SM	N/A	PID=1.0 ppm α =0 ppm BT=70 cpm
16.0	111167 04/30/93 09:20	7		6	VERY DENSE, (2.5Y,5/4) LIGHT OLIVE BROWN, SILT FINE SAND, WET, SMALL CLAY LAYER		SM	N/A	PID=1.0 ppm α =0 ppm BT=50 cpm
16.5	111168 04/30/93 09:20	46		2	VERY DENSE, (2.5Y,6/2) LIGHT BROWNISH GRAY, SILTY FINE SAND, WET		SM	N/A	PID=1.0 ppm α =0 ppm BT=50 cpm
17.0	04/30/93 09:20	50	0		NO RECOVERY		N/A	N/A	PID=1.0 ppm α =0 ppm BT=50 cpm
17.5	111169 04/30/93 09:27	17		6	DENSE, SAA		SM	N/A	PID=0.8 ppm α =0 ppm BT=70 cpm
18.0	111170 04/30/93 09:27	15		6	SAA		SM	N/A	PID=0.8 ppm α =0 ppm BT=70 cpm

NOTES:
THE TOP GIN SECTION OF RISER IS BENT AND NEED TO BE REPLACED.

Driller: DAN JAMISON
Drilling Equipment: MOBIL B80

SAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1937				COORDINATES: NORTH 480645.51 EAST 1379534.49 DATE: 28-APR-93				
GROUND ELEVATION: 576.81				GWL: Depth 1.82 Date/Time 01-May-93 10:20 DATE STARTED: 28-APR-93				
ENGINEER/GEOLOGIST: B E MULLER				Depth		Date/Time		
DRILLING METHOD: HOLLOW STEM AUGER								
D E P T H	S A D T E	B L O W L E	R E C O V E R Y	S U Y S M C B S O L	T S F	REMARKS		
18.5 19.0	111171 04/30/93 09:27	19	6	DENSE, (5Y,5/4) OLIVE CLAYEY SANDY SILT, VERY MOIST, TRACE FINE GRAVEL		ML	2.6	PID=0.8 ppm $\alpha=0$ ppm BT=70 cpm
19.0 19.5	111172 04/30/93 09:27	3	6	MEDIUM DENSE, OLIVE, CLAYEY SANDY SILT, (5Y,5/4), WET, FINE GRAVEL		SC	N/A	PID=0.6 ppm $\alpha=0$ ppm BT=70 cpm
19.5 20.0	111173 04/30/93 09:34	9	6	SAA		SC	N/A	PID=0.6 ppm $\alpha=0$ ppm BT=70 cpm
20.0 20.5	111174 04/30/93 09:34	17	6	MEDIUM DENSE, (5Y,5/4) OLIVE, CLAYEY SANDY SILT, TRACE FINE GRAVEL, VERY MOIST		SC	N/A	PID=0.6 ppm $\alpha=0$ ppm BT=70 cpm
NOTES: THE TOP GIN SECTION OF RISER IS BENT AND NEED TO BE REPLACED.				Driller: DAN JAMISON Drilling Equipment: MOBIL B80 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable				

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1940					COORDINATES: NORTH 480457.72 EAST 1379525.12				
GROUND ELEVATION: 576.5					GWL: Depth 17 Date/Time 16-May-93 11:10				
ENGINEER/GEOLOGIST: GREG RONCZKA					Depth	Date/Time			DATE COMPLETE: 24-MAY-93
DRILLING METHOD: HOLLOW STEM AUGERING									
D E P T H	S A M P L E	A D T M E E	B L O W S O N	S A M P L E R E V E R Y	I N C H E S		S Y S M C B S O L	T S F	REMARKS
.5	114667 05/15/93 10:10	4		6	SOFT, (2.5Y,3/3) DARK OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST		CL	.25	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
.5	114668 05/15/93 10:10	8		6	STIFF, (2.5Y,5/4) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST		CL	1	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
1.0	114669 05/15/93 10:10	8		6	SAA		CL	1.75	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
1.5	114670 05/15/93 10:10	15		2	HARD, (2.5Y,5/4) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST		CL	4.5	PID=0 ppm $\alpha=0$ ppm BT=60 cpm
2.0	114671 05/15/93 10:30	N/A	N/A		SHELBY TUBE		N/A	N/A	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
3.5	114671 05/15/93 10:30	N/A	N/A		VERY STIFF, (2.5Y,5/3) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST		CL	3.0	PID=0 ppm $\alpha=0$ ppm BT=50 cpm
4.0	114672 114673 05/15/93 13:10	4		6	STIFF, (2.5Y,5/4) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST		CL	1.75	PID=0 ppm $\alpha=0$ ppm BT=70 cpm
4.5	114672 114673 05/15/93 13:10	7		6	VERY STIFF, SAA		CL	2.5	PID=0 ppm $\alpha=0$ ppm BT=70 cpm
5.0	114672 114673 05/15/93 13:10	7		6	VERY STIFF, SAA		CL	2.75	PID=0 ppm $\alpha=0$ ppm BT=70 cpm
5.5	114672 114673 05/15/93 13:10	14		6	STIFF, SAA		CL	1.0	PID=0 ppm $\alpha=0$ ppm BT=70 cpm
6.0	114674 05/15/93 13:25	4		6	SAA		CL	1.5	PID=0 ppm $\alpha=0$ ppm BT=70 cpm
6.5	114675 05/15/93 13:25	7		6	VERY STIFF, SAA		CL	2.75	PID=0 ppm $\alpha=0$ ppm BT=70 cpm
NOTES: PROTECTIVE CASING IS SET, CONCRETE PAD TO BE INSTALLED AT A LATER DATE.									
Boring Contractor: PENN DRILL Driller: DAN JAMISON, DAN ARTHUR Drilling Equipment: MOBILE, B-53 TRACK RIG									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 1940					COORDINATES: NORTH 480457.72 EAST 1379525.12				
GROUND ELEVATION: 576.5					GWL: Depth 17	Date/Time 16-May-93 11:10	DATE STARTED: 15-MAY-93		
ENGINEER/GEOLOGIST: GREG RONCZKA					Depth	Date/Time	DATE COMPLETE: 24-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGERING									
D E P T H	S A M P L E	D A T E E E	B L O W S P L E O N	S A I M E E S P L E R Y	R E C O V R E Y	I N C H E S	S U S M C B S O L	T S F	REMARKS
7.0	114676 05/15/93 13:25	12	6	SAA			CL	3.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm
7.5	114677 05/15/93 13:35	3	6	STIFF, (2.5Y,5/2) GRAYISH BROWN, SILTY CLAY, LOW PLASTICITY, MOIST			CL	1.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
8.0	114678 05/15/93 13:35	6	6	VERY STIFF, SAA			CL	3.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
8.5	114679 05/15/93 13:35	14	6	SAA			CL	3.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
9.0	114680 05/15/93 13:57	4	6	STIFF, (2.5Y,5/4) LIGHT OLIVE BROWN, SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	1	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
9.5	114681 05/15/93 13:57	4	6	MEDIUM STIFF, SAA			CL	.75	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
10.0	114682 05/15/93 13:57	4	6	MEDIUM STIFF, (5Y,5/1) GRAY, SILTY CLAY, MEDIUM PLASTICITY, MOIST			CL	.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
10.5	114683 05/15/93 14:30	4	6	LOOSE, (5Y,5/1) GRAY, SILTY, FINE GRAINED SAND, WET			SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
11.0	114684 05/15/93 14:30	5	4	SAA			SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
11.5	114685 05/15/93 14:40	5	0	NO RECOVERY (INFERRED FROM BORING LOG)			N/A	N/A	
12.0	114686 05/15/93 14:40	5	6	VERY SOFT, (5Y,5/1) GRAY, SILTY CLAY, MEDIUM PLASTICITY, WET			CL	.25	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm
12.5	114687 05/15/93 14:40	10	6	MEDIUM DENSE, (5Y,5/1) GRAY, SILTY FINE GRAINED SAND, WET			SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm
13.0	114688 05/15/93 14:40	20	6	SAA			SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm
NOTES: PROTECTIVE CASING IS SET, CONCRETE PAD TO BE INSTALLED AT A LATER DATE.									
Boring Contractor: PENN DRILL Driller: DAN JAMISON, DAN ARTHUR Drilling Equipment: MOBILE, B-53 TRACK RIG									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 1940					COORDINATES: NORTH 480457.72 EAST 1379525.12			DATE: 15-MAY-93		
GROUND ELEVATION: 576.5					GWL: Depth 17 Date/Time 16-May-93 11:10			DATE STARTED: 15-MAY-93		
ENGINEER/GEOLOGIST: GREG RONCZKA					Depth Date/Time			DATE COMPLETE: 24-MAY-93		
DRILLING METHOD: HOLLOW STEM AUGERING										
D E P T H	S A M P L E	D A T E E N	B L O W S O N	S A M P L E R Y	R E C O V E R E S	I N C H E S	S Y U S M C B S O L	T S F	REMARKS	
13.5 14.0	114688 05/15/93 14:50	5		6	MEDIUM DENSE, (5Y,5/1) GRAY SILTY, FINE TO MEDIUM GRAINED SAND WITH TRACE OF GRAVEL, WET			SM	N/A	PID=0 ppm α =0 ppm BT=70 cpm
14.0 14.5	114689 05/15/93 14:50	10		6	SAA			SM	N/A	PID=0 ppm α =0 ppm BT=70 cpm
14.5 15.0	114690 05/15/93 14:50	10		6	SAA			SM	N/A	PID=0 ppm α =0 ppm BT=70 cpm
15.0 15.5	114691 05/15/93 15:05	4		6	SAA			SM	N/A	PID=0 ppm α =0 ppm BT=70 cpm
15.5 16.0	114692 05/15/93 15:05	7		6	SAA			SM	N/A	PID=0 ppm α =0 ppm BT=70 cpm
16.0 16.5	114693 05/15/93 15:05	7		6	MEDIUM STIFF, (5Y,5/1) GRAY, SILTY CLAY WITH SOME GRAVEL, MEDIUM PLASTICITY, MOIST			CL	.75	PID=0 ppm α =0 ppm BT=70 cpm
16.5 17.0	114694 05/15/93 15:20	10		6	VERY STIFF, SAA			CL	2.0	PID=0 ppm α =0 ppm BT=70 cpm
17.0 17.5	114695 05/15/93 15:20	22		6	SAA			CL	2.25	PID=0 ppm α =0 ppm BT=70 cpm
17.5 18.0	114696 05/15/93 15:20	22		6	HARD, SAA			CL	4.5	PID=0 ppm α =0 ppm BT=70 cpm
18.0 18.5	114697 05/15/93 15:30	6		6	DENSE, (5Y,5/1) GRAY SILT, WET			SM	N/A	PID=0 ppm α =0 ppm BT=60 cpm
18.5 19.0	114698 05/15/93 15:30	18		6	VERY STIFF, (5Y,5/1) GRAY, SILTY CLAY WITH SOME GRAVEL, LOW PLASTICITY, MOIST			CL	2.0	PID=0 ppm α =0 ppm BT=60 cpm
19.0 19.5	114699 05/15/93 15:30	21		6	HARD, SAA			CL	4.5	PID=0 ppm α =0 ppm BT=60 cpm
NOTES: PROTECTIVE CASING IS SET, CONCRETE PAD TO BE INSTALLED AT A LATER DATE.					Boring Contractor: PENN DRILL Driller: DAN JAMISON, DAN ARTHUR Drilling Equipment: MOBILE, B-53 TRACK RIG					
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION						
BORING NUMBER: 2042					COORDINATES: NORTH 480394.27 EAST 1379542.73			DATE: 11-APR-88			
GROUND ELEVATION: 572.8					GWL: Depth	Date/Time		DATE STARTED: 11-APR-88			
ENGINEER/GEOLOGIST: M. GOLDBERG					Depth	Date/Time		DATE COMPLETE: 19-APR-88			
DRILLING METHOD:											
D E P T H	S A D D L E	A M P T M E	S A I M O E	B L S L O N	R E C O V P R E S	I N C H E R Y		S Y U S M C B S O L	T S F	REMARKS	
1.5	008867 04/11/88 08:45	2 3 6	14	VERY STIFF DARK YELLOWISH BROWN CLAY (10YR, 4/4) DRY.					CL	2.5	PID=0 ppm α =0 ppm BT=90 cpm
1.5 3.0	008868 04/11/88 08:50	6 10 9	14	VERY STIFF DARK BROWN CLAY (10YR, 3/3) DRY.					CL	2.5	PID=0 ppm α =0 ppm BT=90 cpm
3.0 4.5	008869 04/11/88 08:52	10 11 11	18	STIFF DARK YELLOWISH BROWN CLAY (10YR, 4/6), DRY.					CL	1.0	PID=0 ppm α =0 ppm BT=90 cpm
4.5 6.0	008870 04/11/88 08:55	8 8 8	8	STIFF DARK YELLOWISH BROWN CLAY (10YR, 4/6), DRY.					CL	1.0	PID=0 ppm α =0 ppm BT=90 cpm
6.0 7.5	008871 04/11/88 09:00	5 6 6	18	STIFF DARK YELLOWISH BROWN CLAY (10YR, 4/6) DRY. LOOSE YELLOWISH BROWN SILTY SAND (10YR, 5/8) WET. STIFF LIGHT GRAY SILTY CLAY (10YR, 7/1) WET.					CL SM CL	1.0 1.5	PID=0 ppm α =0 ppm BT=90 cpm
7.5 9.0	008872 04/11/88 09:03	6 6 7	18	STIFF LIGHT GRAY SILTY CLAY (10YR, 7/1), WET. TRACE SAND, WET.					CL	1.0	PID=0 ppm α =0 ppm BT=100 cpm
9.0 10.5	008873 04/11/88 09:05	6 8 10	18	STIFF LIGHT GRAY SILTY CLAY (10YR, 7/1) WET. TRACE SAND, WET.					CL CL	1.0 1.0	PID=0 ppm α =0 ppm BT=100 cpm
10.5 12.0	008490 04/11/88 13:55	4 7 6	12	STIFF LIGHT GRAY SILTY CLAY WITH SAND (10YR, 7/1), WET.					CL	1.0	PID=0 ppm α =0 ppm BT=100 cpm
12.0 13.5	008491 04/11/88 14:00	9 7 13	14	MEDIUM DENSE LIGHT GRAY SILTY SAND (10YR, 7/1) WET.					SM	N/A	PID=0 ppm α =0 ppm BT=100 cpm
13.5 15.0	008492 04/11/88 14:05	9 11 13	14	MEDIUM DENSE GRAY SILTY SAND (10YR, 5/1), WET.					SM	N/A	PID=0 ppm α =0 ppm BT=100 cpm
15.0 16.5	008493 04/11/88 14:10	11 12 15	18	MEDIUM DENSE GRAY SILTY SAND (10YR, 5/1), WET.					SM	<1	PID=0 ppm α =0 ppm BT=90 cpm
16.5 18.0	008494 04/11/88 14:15	8 9 9	18	MEDIUM DENSE GRAY SAND (10YR, 5/1) WET, TRACE SILT.					SP	<1	PID=0 ppm α =0 ppm BT=90 cpm
18.0 19.5	008495 04/11/88 15:35	3 3 3	10	STIFF GRAY CLAY (10YR, 5/1), WET, TRACE SAND.					CL	1.5	PID=0 ppm α =0 ppm BT=90 cpm
NOTES:										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 602 3.2					PROJECT NAME: CRU2 RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 2042					COORDINATES: NORTH 480394.27 EAST 1379542.73			DATE: 11-APR-88		
GROUND ELEVATION: 572.8					GWL: Depth	Date/Time		DATE STARTED: 11-APR-88		
ENGINEER/GEOLOGIST: M. GOLDBERG					Depth	Date/Time		DATE COMPLETE: 19-APR-88		
DRILLING METHOD:										
D E E P T H	S A M P L E	D A T E E N	B L O W S L O N	S A M P L E R E C O V E R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS	
19.5 21.0	008496 04/11/88 15:40	10 15 11	8	MEDIUM DENSE GRAY SAND (10YR, 5/1) WET. HARD DARK GRAY CLAY (5Y, 4/1) DRY.				SW CL	<1 >4	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
22.0 23.5	008498 04/12/88 08:30	6 10 12	14	MEDIUM STIFF DARK GRAY CLAY (5Y, 4/1), DRY.				CL	1.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
23.5 25.0	008499 04/12/88 08:45	3 4 8	18	STIFF DARK GRAY CLAY (5Y, 4/1), DRY.				CL	2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=100$ cpm
25.0 26.5	008500 04/12/88 09:20	1 2 3	10	STIFF OLIVE GRAY CLAY (5Y, 5/2), TRACE GRAVEL, DRY.				CL	1.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
26.5 28.0	008501 04/12/88 09:40	10 13 16	14	VERY STIFF DARK GRAY CLAY (5Y, 4/1), TRACE GRAVEL, DRY.				CL	4.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
28.0 30.0	008502 04/12/88 09:50	10 16 21	20	VERY STIFF DARK GRAY CLAY (5Y, 4/1), TRACE GRAVEL, DRY.				CL	4.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
30.0 31.5	008503 04/12/88 10:20	8 13 50	18	HARD GRAY CLAY (5Y, 5/1), TRACE GRAVEL, DRY.				CL	>4.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
31.5 33.0	008504 04/12/88 10:30	15 14 21	18	VERY STIFF GRAY CLAY (5Y, 5/1), TRACE GRAVEL, DRY.				CL	3.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
33.0 34.5	008505 04/12/88 10:50	8 14 15	18	VERY STIFF GRAY CLAY (5Y, 5/1), TRACE GRAVEL, DRY.				CL	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
34.5 36.0	008506 04/12/88 13:20	8 12 14	18	VERY STIFF GRAY CLAY (5Y, 5/1), TRACE GRAVEL, DRY.				CL	2.0	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
36.0 37.5	008507 04/12/88 13:40	5 9 20	18	VERY STIFF GRAY CLAY (5Y, 5/1), TRACE GRAVEL, DRY. VERY STIFF DARK YELLOWISH BROWN CLAY (10YR, 4/6) DRY, TRACE GRAVEL.				CL CL	2.0 2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
37.5 39.0	008508 04/12/88 14:00	10 16 50	10	VERY DENSE YELLOWISH BROWN SAND (10YR, 5/8), DRY.				SW	<1	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=90$ cpm
45.0 46.5	008509 04/12/88 16:10	25 30 50	18	VERY DENSE YELLOWISH BROWN GRAVEL (10YR, 5/8), DRY. VERY DENSE YELLOWISH BROWN SAND (10YR, 5/8), DRY.				GW SW	<1 <1	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=80$ cpm
NOTES:										
<p style="text-align: center;">SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable</p>										

S.A.A.

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PROJECT NUMBER: 602 3.2				PROJECT NAME: CRUZ RI PHASE I FIELD INVESTIGATION					
BORING NUMBER: 2042				COORDINATES: NORTH 480394.27 EAST 1379542.73 DATE: 11-APR-88					
GROUND ELEVATION: 572.8				GWL: Depth Date/Time DATE STARTED: 11-APR-88					
ENGINEER/GEOLOGIST: M. GOLDBERG				Depth Date/Time DATE COMPLETE: 19-APR-88					
DRILLING METHOD:									
D E P T H	S A M P L E	D A T E E N	B L O W S O N	R E S A M P L E R Y	I C O V E H E S	S Y S M C B S O L	T S F	REMARKS	
50.0	008510 04/13/88 09:10	10 23 27		16	DENSE YELLOWISH BROWN SAND (10YR, 5/8), DRY.	SW	<1	PID=0 ppm $\alpha=0$ ppm BT=80 cpm	
51.5									
55.0	008511 04/13/88 10:40	6 10 14		14	DENSE YELLOWISH BROWN SAND (10YR, 5/8), WET.	SW	<1	PID=0 ppm $\alpha=0$ ppm BT=80 cpm	
56.5									
60.0	008512 04/13/88 11:10	12 17 23		18	DENSE YELLOWISH BROWN GRAVEL (10YR, 5/8), TRACE SAND, WET.	GW	<1	PID=0 ppm $\alpha=0$ ppm BT=80 cpm	
61.5									
65.0	008513 04/13/88 14:30	18 16 19		16	DENSE YELLOWISH BROWN GRAVEL (10YR, 5/8), WET.	GW	<1	PID=0 ppm $\alpha=0$ ppm BT=80 cpm	
66.5									
NOTES:								SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable	

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2935					COORDINATES: NORTH 480499.49 EAST 1379855.38			DATE: 29-APR-93	
GROUND ELEVATION: 579.19					GWL: Depth 57.5 Date/Time 13-May-93 15:45			DATE STARTED: 29-APR-93	
ENGINEER/GEOLOGIST: P MCCARREN					Depth	Date/Time		DATE COMPLETE: 08-MAY-93	
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E	D A T E E E	B L O W S P L E O N	R A M C O P L E R E S	I N C H E S		S Y U S M C B S O L	T S F	REMARKS
2.0	110788 04/29/93 09:00	4 10 10 8	10	3	STIFF, (10YR 5/6) YELLOWISH BROWN, SILTY CLAY, ROOT ZONE, LARGE GRAVELS, SOME COAL FRAGS, LOW PLASTICITY, MOIST		CL	2	PID=3.9 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
2.0	110789 110790 110791 110811 04/29/93 09:20	6 10 10 13	18		VERY STIFF, (10YR 5/1 TO 5/6) GRAY TO YELLOWISH BROWN, SILTY CLAY, MOTTELING, LOW PLASTICITY, MOIST		CL	4	PID=13 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
4.0	110792 04/29/93 09:30	6 11 11 14	18	SAA			CL	4	PID=19.2 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
6.0	110793 04/29/93 09:40	3 3 5	4	STIFF, (10YR 4/4) DARK YELLOWISH BROWN, SILTY CLAY, SOME SAND, MEDIUM PLASTICITY, MOIST TO WET AT BOTTOM OF SPOON			CL	2	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
7.5	110794 04/29/93 13:20	4 6 9	18	STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY CLAY, MOTTELING TRACE FINE SAND, MEDIUM PLASTICITY, MOIST TO WET, VERY FINE SAND LENS, WET, AT 8.0-8.25			CL	2	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm
9.0	110795 04/30/93 10:55	7 11 11	16	STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY CLAY TO CLAYEY SILT, MOTTELING, FE STAINING, TRACE FINE SAND, LOW TO MEDIUM PLASTICITY, MOIST		ML	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm	
10.5	110796 04/30/93 13:35	10 13 13	18	VERY STIFF, (2.5Y 5/4) LIGHT OLIVE BROWN, CLAYEY, SILT, MOTTELING, FE STAINING, TRACE FINE SAND, MEDIUM PLASTICITY, MOIST-LAST 1"(2.5Y 5/1)GRAY CLAY, HIGH PLASTICITY		ML	4	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm	
12.0	110797 04/30/93 14:00	2 5 6	16	STIFF, (2.5Y 5/1) GRAY CLAY, (LACUSTRISE) VARYING, HIGH PLASTICITY, MOIST		CH	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm	
13.5	110798 04/30/93 14:10	5 7 9	16	SAA		CH	2.5	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm	
15.0	110799 04/30/93 15:50	1 4 4	16	SAA		CH	2	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm	
16.5	110800 04/30/93 15:55	3 3 4	14	SAA		CH	2	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=40-60$ cpm	

NOTES:

CEMENT PLACED FROM 0.0 TO 1.0 TO HOLD PROTECTIVE PIPE
IN PLACE WATER LEVEL 051393 57.5 BELOW GROUND SURFACEDriller: BOB ERICKSON, RICHARD THOMS
Drilling Equipment: BUCYRUS-ERIESAA = Same as Above
PID = Photoionization Detector
N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2935					COORDINATES: NORTH 480499.49 EAST 1379855.38			DATE: 29-APR-93		
GROUND ELEVATION: 579.19					GWL: Depth 57.5 Date/Time 13-May-93 15:45			DATE STARTED: 29-APR-93		
ENGINEER/GEOLOGIST: P MCCARREN					Depth	Date/Time		DATE COMPLETE: 08-MAY-93		
DRILLING METHOD: CABLE TOOL										
DEPTH	SAMPLE	DATE	BLOW COUNT	RECOVERY				SYMBOL	TSF	REMARKS
	M	A	T	R	I	N	C	S	S	
	M	A	W	C	O	E	V	M	F	
	P	E	S	O	R	H	E	B		
	L	E	E	R	E	S	R	S		
	E							O		
18.0	110801 04/30/93 16:15	1 3 4	8	SAA				CH	2	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
19.5	110802 04/30/93 16:20	2 16 19	18	0-12" STIFF, (2.5Y 5/1) GRAY CLAY, VARYING, HIGH PLASTICITY, MOIST, 12-18" STIFF, (2.5Y 5/1) GRAY CLAYEY SILT, SLIGHT PLASTICITY, SMALL MEDIUM TO FINE SAND LENS				CH ML	2 2.5	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
21.0	110803 05/01/93 08:15	1 1 7	6	STIFF, (2.5Y 5/1) GRAY CLAYEY SILT, SLIGHT PLASTICITY, MEDIUM TO FINE SAND, MOIST				ML	2.5	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
22.5	110804 05/01/93 08:20	17 13 14	12	STIFF, (2.5Y 5/1) GRAY CLAYEY SILT, SLIGHT PLASTICITY, SMALL MEDIUM TO FINE SAND LENSES, SOME SMALL GRAVELS, IN SILT AND SAND, MOIST				ML	2.5	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
24.0	110805 05/01/93 09:20	1 3 5	6	STIFF, (2.5Y 4/1) DARK GRAY CLAYEY SILT, SOME FINE TO MEDIUM SAND, SOME SMALL GRAVELS 10-30 MM, LOW PLASTICITY, MOIST				ML	2.5	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
25.5	110806 05/01/93 09:25	7 12 13	6	SAA				ML	2.5	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
27.0	110807 05/01/93 13:20	5 22 25	8	HARD, (2.5Y 5/1) GRAY SILTY CLAY, SOME FINE TO MEDIUM SAND, SOME SMALL GRAVELS, 10-30 MM, LOW PLASTICITY, MOIST				CL	4.5	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
28.5	110808 05/01/93 14:20	25 35 100	18	0-14" HARD, (2.5Y 5/1) GRAY SILTY CLAY, SOME FINE TO MEDIUM SAND, SOME SMALL GRAVELS, LOW PLASTICITY, MOIST, 14-16" VERY DENSE, (10YR 4/6) DARK YELLOWISH BROWN, SILT WITH FE STAINS, MOIST, 16-18" (10YR 4/6) DARK YELLOWISH BROWN, MEDIUM SAND, MOIST				CL ML SM	4.5	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
30.0	110809 05/01/93 15:15	34 37 41	16	VERY DENSE, (10YR 4/6) DARK YELLOWISH BROWN, FINE TO COARSE SILTY SAND, POORLY SORTED, FE STAINING, DAMP				SM	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
31.5	110810 05/01/93 16:30	18 27 34	14	VERY DENSE, (10YR 4/6) DARK YELLOWISH BROWN, FINE TO MEDIUM SILTY SAND, POORLY SORTED, FE STAINING SOME BEDDING PRESENT, DRY				SM	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
40.0	110812 05/02/93 09:25	15 34 48	11	VERY DENSE, (2.5Y 6/6) OLIVE YELLOW, POORLY GRADED, FINE SAND, DRY				SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
41.5	110813 05/02/93 10:35	50	6	VERY DENSE, (2.5Y 5/4) LIGHT OLIVE BROWN, POORLY GRADED SAND, SOME GRAVELS, DRY				SP	N/A	PID=0 ppm $\alpha=0$ ppm BT=40-60 cpm
45.0										
46.5										
NOTES: CEMENT PLACED FROM 0.0 TO 1.0 TO HOLD PROTECTIVE PIPE IN PLACE WATER LEVEL 051393 57.5 BELOW GROUND SURFACE										Driller: BOB ERICKSON, RICHARD THOMS Drilling Equipment: BUCYRUS-ERIE
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 2935				COORDINATES: NORTH 480499.49 EAST 1379855.38			DATE: 29-APR-93			
GROUND ELEVATION: 579.19				GWL: Depth 57.5 Date/Time 13-May-93 15:45			DATE STARTED: 29-APR-93			
ENGINEER/GEOLOGIST: P MCCARREN				Depth	Date/Time		DATE COMPLETE: 08-MAY-93			
DRILLING METHOD: CABLE TOOL										
D E P T H	S A M P L E	D A T E E	T M E E	B L O W S O N	R A M P L E	I C O V E R Y	S U S C B S O L	T S F	REMARKS	
50.0 51.5	110814 05/02/93 14:25	50		1	VERY DENSE, (2.5Y 5/4) LIGHT OLIVE BROWN, POORLY GRADED SAND, SOME GRAVELS, MOIST			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40$ cpm
55.0 56.5	110815 05/03/93 13:35	14 30 30		4	SAA			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm
56.5 58.0	110816 05/03/93 13:55	40 50 50		16	0-10" VERY DENSE, (2.5Y 5/4) LIGHT OLIVE BROWN, MEDIUM TO FINE SAND POORLY GRADED, SOME GRAVELS, MOIST, 10-16" VERY DENSE, (10YR 4/1) DARK GRAY, COARSE, MEDIUM AND FINE SAND AND SOME GRAVELS, WET-WATER TABLE			SP SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm
58.0 59.5	110817 05/03/93 14:20	25 20 20		14	DENSE, (2.5Y 5/4) LIGHT OLIVE BROWN, MEDIUM TO FINE SAND AND SOME GRAVELS, WET			SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm
59.5 61.0	110818 05/03/93 14:55	11 15 20		14	0-10" SAA, 10-14" DENSE, (2.5Y 5/4) LIGHT OLIVE BROWN, FINE SAND, WITH MEDIUM TO COARSE SAND, WET			SM SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm
61.0 62.5	110819 05/03/93 15:10	16 18 20		16	SAA			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm
62.5 64.0	110820 05/03/93 15:40	11 15 15		16	SAA			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm
64.0 65.5	110821 05/03/93 15:50	11 21 24		16	SAA			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40-60$ cpm
65.5 67.0	110822 05/05/93 08:15	6 6 12		18	SAA			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-110$ cpm
67.0 68.5	110823 05/05/93 08:30	12 24 30		18	VERY DENSE, (2.5Y 5/4) LIGHT OLIVE BROWN, FINE SAND, WITH MEDIUM TO COARSE SAND AND SOME GRAVELS, WET			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-120$ cpm
68.5 70.0	110824 05/05/93 08:45	20 30 27		16	SAA			SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60-120$ cpm
NOTES: CEMENT PLACED FROM 0.0 TO 1.0 TO HOLD PROTECTIVE PIPE IN PLACE WATER LEVEL 051393 57.5 BELOW GROUND SURFACE										Driller: BOB ERICKSON, RICHARD THOMS Drilling Equipment: BUCYRUS-ERIE
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2936					COORDINATES: NORTH 480677.56 EAST 1379862.08			DATE: 29-APR-93	
GROUND ELEVATION: 579.6					GWL: Depth 59.05 Date/Time 14-May-93 11:00			DATE STARTED: 29-APR-93	
ENGINEER/GEOLOGIST: K PAYNE					Depth	Date/Time			DATE COMPLETE: 14-MAY-93
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E E	D A T E M O N	B L O W S A M P L E O N	R E C O V E R Y	I N C H E S		S U Y S M C B S O L	T S F	REMARKS
2.0	110939 04/29/93 13:35	3 6 12 15	15		HARD, (2.5Y, 5/4) LIGHT OLIVE BROWN, CLAY WITH TRACE GRAVEL, NON-PLASTIC, SLIGHTLY MOIST, FILL		CL	4.5	PID=.8 ppm $\alpha=0$ ppm $\delta\Gamma=90$ cpm
2.0	110940 04/29/93 13:45	17 15 13 14	24		MEDIUM DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED FINE CLAYEY SAND MIXTURE, WITH TRACE GRAVEL, NON-PLASTIC, SLIGHTLY MOIST, FILL		SC	N/A	PID=.8 ppm $\alpha=0$ ppm $\delta\Gamma=90$ cpm
4.0									
3.0	110739 04/12/93 14:30	13 18 18	11		HARD, LIGHT OLIVE BROWN, (2.5Y, 5/4), SILTY SANDY CLAY WITH ROCK FRAGMENTS AND PEBBLES, LOW PLASTICITY, SLIGHTLY MOIST		CL	4.5	PID=5 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
4.0	110941 04/29/93 13:55	9 12 18 3	24		SAA		SC	N/A	PID=.6 ppm $\alpha=0$ ppm $\delta\Gamma=90$ cpm
6.0									
6.0	110945 04/29/93 14:20	2 4 6	14		LOOSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED FINE CLAYEY SAND MIXTURE, NON-PLASTIC, SLIGHTLY MOIST, FILL		SC	N/A	PID=1.7 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
7.5									
7.5	110946 04/29/93 14:22	3 5 6	15		STIFF, (2.5Y, 5/3) LIGHT OLIVE BROWN, CLAY, LOW PLASTICITY, MOIST		CL	1.5	PID=2.3 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
9.0									
9.0	110947 04/29/93 14:30	3 6 5	12		SAA		CL	1.5	PID=1.7 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
10.5									
10.5	110948 04/29/93 14:33	3 5 5	14		STIFF, (7.5YR, 5/6) STRONG BROWN, CLAYEY SAND MIXTURE, NON-PLASTIC, MOIST		SC	1	PID=1.6 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
12.0									
12.0	110949 04/29/93 14:35	6 11 15	6		MEDIUM DENSE, (2.5Y, 6/3) LIGHT YELLOWISH BROWN, SILTY SAND, NON-PLASTIC, WET		SM	N/A	PID=2.4 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
13.5									
13.5	110950 04/29/93 14:40	12 15 17	16		DENSE, (2.5Y, 6/3) LIGHT YELLOWISH BROWN, POORLY GRADED MEDIUM SAND, NON-PLASTIC, WET		SP	N/A	PID=11.2 ppm $\alpha=0$ ppm $\delta\Gamma=100$ cpm
15.0									
15.0	110951 05/05/93 10:40	5 6 9	15		VERY STIFF, (5Y, 5/2) OLIVE GRAY, SILTY CLAY WITH TRACE GRAVEL, MOIST, SLIGHT PLASTICITY		CL	2.5	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
16.5									
16.5	110952 05/05/93 11:00	6 9 10	7		STIFF, (5Y, 5/2) OLIVE GRAY, SILTY CLAY, LOW PLASTICITY, MOIST		CL	2	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
18.0									
NOTES: CEMENT WAS PLACED FROM 0-.6 FT TO KP 5-14-93 HOLD THE PROTECTIVE COVER IN PLACE.									
Driller: BOB JOHNSON Drilling Equipment: CYCLONE 42 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION						
BORING NUMBER: 2936				COORDINATES: NORTH 480677.56 EAST 1379862.08				DATE: 29-APR-93		
GROUND ELEVATION: 579.6				GWL: Depth 59.05 Date/Time 14-May-93 11:00				DATE STARTED: 29-APR-93		
ENGINEER/GEOLOGIST: K PAYNE				Depth Date/Time				DATE COMPLETE: 14-MAY-93		
DRILLING METHOD: CABLE TOOL										
D E P T H	S A M P L E	D A T E E E	B L O W S E L O N	T I M E E E R Y	R E C O V E R Y	I N C H E E S	S Y U S M C B S O L	T S F	REMARKS	
18.0 19.5	110953 05/05/93 11:10	4 4 10	4	10	STIFF, (5Y, 5/2) OLIVE GRAY, SILTY CLAY, LOW PLASTICITY, MOIST		CL	2	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm	
19.5 21.0	110954 05/05/93 14:00	10 11 10	10	8	MEDIUM DENSE, (5Y, 4/2) OLIVE GRAY, SILTY SAND, VERY MOIST		SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm	
21.0 22.5	110955 05/05/93 14:15	8 3 4	8	6	LOOSE, (5Y, 5/1) GRAY, SILTY SAND, WET		SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
22.5 24.0	110956 05/05/93 14:30	9 8 5	N/A		NO RECOVERY-2 SPOONS DRIVEN		N/A	N/A		
24.0 25.5	110956 05/06/93 09:00	65 21 9	65	7	MEDIUM DENSE, (5Y, 5/2) OLIVE GRAY, SILTY GRAVEL, WET		GM	N/A	PID=2.6 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm	
25.5 27.0	110957 05/06/93 09:15	7 8 7	7	5	SAA		GM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
27.0 28.5	110958 05/06/93 09:30	6 6 5	6	6	SOFT, (5Y, 5/2) OLIVE GRAY, SANDY CLAY, SLIGHT PLASTICITY, WET		CL	1	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm	
28.5 30.0	110959 05/06/93 09:40	6 21 50	6	7	VERY DENSE, (5Y, 5/2) OLIVE GRAY, WELL GRADED GRAVEL, WET		GW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm	
30.0 31.5	110960 05/06/93 10:15	21 35 50	21	8	VERY DENSE, (5Y, 5/2) OLIVE GRAY, SANDY SILT, NON-PLASTIC, VERY MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
31.5 33.0	110961 05/06/93 10:30	24 37 50	24	12	VERY DENSE, (5Y, 4/2) OLIVE GRAY, SANDY SILT, NON-PLASTIC, VERY MOIST		ML	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm	
33.0 34.5	110962 05/06/93 10:50	22 35 37	22	14	VERY DENSE, (5Y, 5/1) GRAY, SILTY SAND, WET, NON-PLASTIC		SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm	
34.5 36.0	110963 05/06/93 13:45	7 9 12	7	9	MEDIUM DENSE, (5Y, 5/1) GRAY, CLAYEY SILT, MOIST, NON-PLASTIC		ML	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=70$ cpm	
36.0 37.5	110964 05/06/93 14:05	7 9	7	8	MEDIUM DENSE, (5Y, 5/1) GRAY, CLAYEY SILT, MOIST, NON-PLASTIC		ML	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm	
NOTES: CEMENT WASS PLACED FROM 0-.6 FT TO KP 5-14-93 HOLD THE PROTECTIVE COVER IN PLACE.										
Driller: BOB JOHNSON Drilling Equipment: CYCLONE 42										
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable										

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRUZ RI PHASE II FIELD INVESTIGATION					
BORING NUMBER: 2936					COORDINATES: NORTH 480677.56 EAST 1379862.08 DATE: 29-APR-93					
GROUND ELEVATION: 579.6					GWL: Depth 59.05 Date/Time 14-May-93 11:00 DATE STARTED: 29-APR-93					
ENGINEER/GEOLOGIST: K PAYNE					Depth Date/Time			DATE COMPLETE: 14-MAY-93		
DRILLING METHOD: CABLE TOOL										
D E P T H	S A M P L E	D A T E E	T I M E S	B L O W N	R E C O V E R Y	S A C C H E S	I N C H E S	S U Y S M C B S O L	T S F	REMARKS
37.5	110965	05/06/93	14:20	6	7	10	MEDIUM DENSE, (5Y, 4/1) DARK GRAY, CLAYEY SILT, NON-PLASTIC, MOIST, ORGANICS	ML	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
39.0	110966	05/06/93	15:30	17	19	8	DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED, FINE SAND, SLIGHTLY MOIST	SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
40.5	110967	05/06/93	15:40	19	21	8	VERY DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, POORLY GRADED, FINE SAND, SLIGHTLY MOIST	SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
42.0	110968	05/06/93	15:40	N/A	N/A	NO SAMPLES TAKEN SAMPLES TO BE TAKEN EVERY 5' STARTING AT 45.0'		N/A	N/A	
45.0	110968	05/06/93	16:00	29	39	10	VERY DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, WELL GRADED SAND WITH TRACE GRAVEL, DRY	SW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
50.0	110969	05/10/93	10:05	8	16	8	DENSE, (2.5Y, 6/3) LIGHT YELLOWISH BROWN, POORLY GRADED FINE SAND, DRY	SP	N/A	PID=.4 ppm $\alpha=0$ ppm $\delta\Gamma=50$ cpm
51.5	110970	05/10/93	10:30	19	34	10	VERY DENSE, (10YR, 4/6) DARK YELLOWISH BROWN, WELL GRADED GRAVELY SAND, DRY	SW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
54.5	110971	05/10/93	13:40	19	29	8	VERY DENSE, (2.5Y, 5/4) LIGHT OLIVE BROWN, WELL GRADED, GRAVELY SAND, DRY	SW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
56.0	110972	05/10/93	15:10	41	50	6	VERY DENSE, (10YR, 5/3) BROWN, WELL GRADED, SILTY SAND, WET	SM	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
57.5	110973	05/10/93	15:30	4	9	9	MEDIUM DENSE, (2.5Y, 5/2) GRAYISH BROWN, POORLY GRADED FINE SAND, WET	SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=80$ cpm
59.0	110974	05/10/93	15:45	10	11	14	MEDIUM DENSE, (5Y, 4/2) OLIVE GRAY, POORLY GRADED FINE SAND, WET	SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
60.5	110975	05/10/93	16:00	7	11	17	SAA	SP	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=40$ cpm
62.0	110976	05/10/93	16:15	13	13	18	MEDIUM DENSE, (5Y, 4/2) OLIVE GRAY, WELL GRADED, MEDIUM TO FINE SAND, WET	SW	N/A	PID=0 ppm $\alpha=0$ ppm $\delta\Gamma=60$ cpm
63.5										
NOTES: CEMENT WAS PLACED FROM 0-.6 FT TO KP 5-14-93 HOLD THE PROTECTIVE COVER IN PLACE.										Driller: BOB JOHNSON Drilling Equipment: CYCLONE 42
										SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable

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PROJECT NUMBER: 20.03.05				PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION							
BORING NUMBER: 2936				COORDINATES: NORTH 480677.56 EAST 1379862.08 DATE: 29-APR-93							
GROUND ELEVATION: 579.6				GWL: Depth 59.05 Date/Time 14-May-93 11:00 DATE STARTED: 29-APR-93							
ENGINEER/GEOLOGIST: K PAYNE				Depth Date/Time DATE COMPLETE: 14-MAY-93							
DRILLING METHOD: CABLE TOOL											
D E P T H	S A M P L E	D A T E E E	B L O S O N	R A C P L E	I N C H E R Y			S U S C B S O L	T S F	REMARKS	
63.5 65.0	110977 05/10/93 16:25	11 13 12		18	MEDIUM DENSE, (5Y, 4.3) OLIVE, POORLY GRADED, MEDIUM SAND, WET			SP	N/A	PID=0 ppm α =0 ppm BR=80 cpm	
65.0 66.5	110978 05/11/93 10:05	22 35 39		12	VERY DENSE, (5Y, 4.2) OLIVE GRAY, POORLY GRADED FINE SAND, WET			SP	N/A	PID=1.9 ppm α =0 ppm BR=40 cpm	
66.5 68.0	110979 05/11/93 10:25	20 22 50		17	VERY DENSE, (5Y, 4/2) OLIVE GRAY, POORLY GRADED, FINE SAND, WET			SP	N/A	PID=0 ppm α =0 ppm BR=80 cpm	
NOTES: CEMENT WASS PLACED FROM 0-.6 FT TO KP 5-14-93 HOLD THE PROTECTIVE COVER IN PLACE.											
Driller: BOB JOHNSON Drilling Equipment: CYCLONE 42 SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable											

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DRILLING METHOD: CABLE TOOL									
PROJECT NUMBER: 20.03.05		PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION		COORDINATES: NORTH 480671.47 EAST 1379531.05 DATE: 15-MAY-93		GROUND ELEVATION: 576.6 GWL: Depth 54.1 Date/Time		ENGINEER/GEOLOGIST: D MCARREN DATE STARTED: 15-MAY-93 DATE COMPLETE: 27-MAY-93	
D	E	S	A	M	P	T	L	R	B
E	P	D	A	I	O	M	S	E	R
P	T	I	M	E	C	O	H	N	I
T	E	E	S	A	C	V	H	E	E
D	E	M	A	T	I	P	P	L	R
R	E	A	T	I	M	O	C	O	S
S	M	A	T	E	S	V	H	E	E
F	S	M	A	T	E	S	H	E	S
T	S	M	A	T	E	S	H	E	S
REMARKS									
2.0	110826	05/15/93	09:30	18	HARD (10YR 5/6) YELLOWISH BROWN SILTY CLAY, SOME MOTTLING, MEDIUM PLASTICITY, MOIST	CL	4	PID=0 ppm a=0 ppm BR=60-80 cpm	
2.0	110827	05/15/93	09:40	18	HARD, (2.5Y 5/4) LIGHT OLIVE BROWN, SILTY CLAY, SOME MOTTLING, MEDIUM PLASTICITY, MOIST	CL	4.5	PID=0 ppm a=0 ppm BR=60-80 cpm	
4.0	110829	05/15/93	09:45	18	SAA VERY STIFF, (2.5Y 5/2) GRAYISH BROWN, SILTY CLAY, SOME MOTTLING, OXIDE STAINING, SOME VERY FINE SAND,	CL	4.5	PID=4 ppm a=0 ppm BR=60-80 cpm	
6.0	110830	05/15/93	09:50	16	VERY STIFF, (2.5Y 5/2) GRAYISH BROWN, SILTY CLAY, SOME MOTTLING, OXIDE STAINING, SOME VERY FINE SAND,	CL	4	PID=0 ppm a=0 ppm BR=60-80 cpm	
7.5	110831	05/15/93	09:55	18	0-15" SAA-GRAVEL ZONE AT 4-6" MEDIUM PLASTICITY 2.9 PPM, 15-18" STIFF (2.5Y 5/1) GRAY CLAY, LACUSTRIINE, VARIUM, HIGH PLASTICITY, MOIST	CH	4	PID=0.0 ppm a=0 ppm BR=60-80 cpm	
9.0	110832	05/15/93	10:00	12	STIFF, (2.5Y 5/1) GRAY CLAY, LACUSTRIINE, VARVING INCERASING SILT, HIGH PLASTICITY, MOIST	CH	3	PID=0 ppm a=0 ppm BR=60-80 cpm	
10.5	110833	05/15/93	10:05	16	0-4" SAA, 4"-16" SOFT, (2.5Y 4/1) DARK GRAY, SILT, CARBONIZED PLANT FIBERS, WET	CH	.5	PID=0 ppm a=0 ppm BR=60-80 cpm	
12.0	110834	05/15/93	10:12	16	SOFT, (2.5Y 4/1) DARK GRAY, SILT, WITH INCERASING FIRN, SAND, CARBONIZED PLANT FIBERS, WET	ML	.5	PID=0 ppm a=0 ppm BR=60-80 cpm	
13.5	110835	05/15/93	10:15	8	0-4" SAA, 4"-8" SOFT (2.5Y 4/1) DARK GRAY, SILT WITH WET	ML	.5	PID=0 ppm a=0 ppm BR=60-80 cpm	
15.0	110836	05/15/93	10:20	11	0-4" SAA, 4"-8" SOFT (2.5Y 4/1) DARK GRAY, SILT WITH WET	ML	.5	PID=0 ppm a=0 ppm BR=60-80 cpm	
16.5	110837	05/15/93	10:25	6	SAA VERY STIFF, (2.5Y 5/2) GRAYISH BROWN, SILTY CLAY, SOME SMALL GRAVELS, MEDIUM PLASTICITY, MOIST	ML	.5	PID=0 ppm a=0 ppm BR=60-80 cpm	
18.0	110837	05/15/93	11:00	6	SAA VERY STIFF, (2.5Y 5/2) GRAYISH BROWN, SILTY CLAY, SOME SMALL GRAVELS, MEDIUM PLASTICITY, MOIST	CL	3.5	PID=0 ppm a=0 ppm BR=60-80 cpm	
18.5	110837	05/15/93	11:11	6	SAA VERY STIFF, (2.5Y 5/2) GRAYISH BROWN, SILTY CLAY, SOME SMALL GRAVELS, MEDIUM PLASTICITY, MOIST	CL	3.5	PID=0 ppm a=0 ppm BR=60-80 cpm	
19.5	110837	05/15/93	11:15	6	SAA VERY STIFF, (2.5Y 5/2) GRAYISH BROWN, SILTY CLAY, SOME SMALL GRAVELS, MEDIUM PLASTICITY, MOIST	CL	3.5	PID=0 ppm a=0 ppm BR=60-80 cpm	
NOTES:									
PLACE MATERIAL FROM 0 TO 1 FT TO HOLD PROTECTIVE PIPE IN BOILING CONTRACTOR: PENNSYLVANIA DRILLING Drilling Contractor: BOB ERICKSON Drilling Equipment: BUCYRUS-ERIE									
N/A = Not Applicable PID = Photoionization Detector SA = Same as Above									

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION										
BORING NUMBER: 2939					COORDINATES: NORTH 480671.47 EAST 1379531.05										
GROUND ELEVATION: 576.6					GWL: Depth 54.1 Date/Time										
ENGINEER/GEOLOGIST: D MCCARREN					Depth	Date/Time			DATE COMPLETE: 27-MAY-93						
DRILLING METHOD: CABLE TOOL															
D E P T H	S A M P L E	D A T E E E	B L O W N S P E E R Y	R E C O V E R Y	I N C H E S		S Y U S C B S O L	T S F	REMARKS						
19.5 21.0	114628 05/15/93 16:10	6 10	10	14	VERY STIFF, (2.5Y 4/1) DARK GRAY, SILTY CLAY, SOME SMALL WEATHERED GRAVELS, MEDIUM PLASTICITY, MOIST, -GRAVEL ZONE AT 10" SMALL GRAVELS, WET					CL 3.5 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
21.0 22.5	114629 05/15/93 16:30	12 12	12	12	SAA					CL 3 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
22.5 24.0	114680 05/15/93 16:40	7 7	10	18	SAA					CL 3 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
24.0 25.5	114631 05/16/93 09:10	11 12	30	4	VERY STIFF, (2.5Y 4/1) DARK GRAY, SILTY CLAY, SOME FINE SAND, SOME SMALL WEATHERED GRAVELS, MEDIUM PLASTICITY, MOIST-LARGE GRAVEL AT BOTTOM OF SPOON					CL 3 PID=3.6 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
25.5 27.0	114632 05/16/93 09:20	12 50	50	8	SAA					CL 4 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
27.0 28.5	114633 05/16/93 14:25	1 3	20	4	SAA					CL 3.5 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
28.5 30.0	114634 05/16/93 14:30	70	18	18	SAA					CL 4.25 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
31.5 33.0	114635 05/17/93 09:45	1 7	19	4	SAA					CL 4.5 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
33.0 34.5	114636 05/17/93 10:45	32 34	30	4	SAA					CL 4.5 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
34.5 36.0	114637 05/17/93 13:35	20 23	20	6	0-2" SAA, 2-6" DENSE, (10YR 5/4) YELLOWISH BROWN, MEDIUM TO FINE SILTY SAND, MOIST					CL SM 4 PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
36.0 37.5	114638 05/15/93 13:40	21 41	49	18	SAA					SM N/A PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
40.0 41.5	114639 05/17/93 14:35	50 50	8	VERY DENSE, (10YR 5/4) YELLOWISH BROWN, MEDIUM TO FINE SILTY SAND, OXIDE STAINING, SOME LARGE GRAVELS, DRY					SM N/A	PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
45.0 46.5	114640 05/17/93 15:35	4 35	47	12	SAA					SM N/A PID=0 ppm $\alpha=0$ ppm $\beta\Gamma=60-80$ cpm					
NOTES: CEMENT PLACED FROM 0 TO 1 FT TO HOLD PROTECTIVE PIPE IN PLACE WATER LEVEL 5-27-93 54.1 BELOW GROUNDSURFACE										Boring Contractor: PENNSYLVANIA DRILLING Driller: BOB ERICKSON Drilling Equipment: BUCYRUS-ERIE					
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable															

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PROJECT NUMBER: 20.03.05					PROJECT NAME: CRU2 RI PHASE II FIELD INVESTIGATION				
BORING NUMBER: 2939					COORDINATES: NORTH 480671.47 EAST 1379531.05			DATE: 15-MAY-93	
GROUND ELEVATION: 576.6					GWL: Depth 54.1 Date/Time			DATE STARTED: 15-MAY-93	
ENGINEER/GEOLOGIST: D MCCARREN					Depth Date/Time			DATE COMPLETE: 27-MAY-93	
DRILLING METHOD: CABLE TOOL									
D E P T H	S A M P L E	D A T E M E N T	B L O W S E N O N	R E C O V R Y	I N C H E S		S U S M C B S O L	T S F	REMARKS
50.0	114641 05/17/93 16:25	7 14 33	4	SAA			SM	N/A	PID=0 ppm α =0 ppm BT=60-80 cpm
51.5	114642 05/20/93 09:15	9 9 10	4	SAA			SM	N/A	PID=0 ppm α =0 ppm BT=20-40 cpm
53.0	114643 05/20/93 09:25	8 23 28	8	SAA			SM	N/A	PID=0 ppm α =0 ppm BT=20-40 cpm
54.5	114644 05/20/93 09:35	50	4	VERY DENSE, (10YR 4/4) DARK YELLOWISH BROWN, COARSE TO FINE SILTY SAND, MOIST			SM	N/A	PID=0 ppm α =0 ppm BT=20-40 cpm
56.0	114645 05/20/93 10:00	8 8 15	12	0-8" SAA, 8-12" MEDIUM DENSE, (2.5Y 4/1) DARK GRAY, COARSE TO MEDIUM GRAINED SAND, WET-TOP OF AQUIFER WATER		SP	N/A	PID=0 ppm α =0 ppm BT=20-40 cpm	
57.5	114646 05/20/93 10:30	8 12 12	12	SAA		SP	N/A	PID=0 ppm α =0 ppm BT=40-60 cpm	
59.0	114647 05/20/93 13:50	3 12 18	8	MEDIUM DENSE, (2.5Y 4/1) DARK GRAY, COARSE TO MEDIUM GRAINED SAND, SOME FINE GRAVELS, WET		SP	N/A	PID=0 ppm α =0 ppm BT=40-60 cpm	
60.5	114648 05/20/93 14:00	29 49 27	18	VERY DENSE, (2.5Y 4/1) DARK GRAY, COARSE TO MEDIUM GRAINED SAND, SOME FINE SAND, SOME FINE GRAVELS, WET *GRAVELS SHOW CHEMICAL WEATHERING		SP	N/A	PID=0 ppm α =0 ppm BT=20-40 cpm	
62.0	114649 05/20/93 14:15	16 30 39	18	SAA		SP	N/A	PID=0 ppm α =0 ppm BT=20-40 cpm	
65.0	05/20/93 15:15	5 4 5	0	NO RECOVERY		N/A	N/A		
66.5	114650 05/20/93 15:30	19 19 25	N/A	SAA		N/A	N/A	PID=0 ppm α =0 ppm BT=20-40 cpm	
NOTES: CEMENT PLACED FROM 0 TO 1 FT TO HOLD PROTECTIVE PIPE IN PLACE WATER LEVEL 5-27-93 54.1 BELOW GROUNDSURFACE									
Boring Contractor: PENNSYLVANIA DRILLING Driller: BOB ERICKSON Drilling Equipment: BUCYRUS-ERIE									
SAA = Same as Above PID = Photoionization Detector N/A = Not Applicable									

TABLE D-19B

K-65/LIME SLUDGE PONDS TRENCHING LOGS

		LENGTH (FEET)																								
		0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	145	150	155	165	175	185	195	205	215	225
DEPTH (FEET)																										
		CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill	CL Fill		
4	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL	Native CL		
5	CL Fill	CL Fill	Native CL																							
6																										

Horizontal Sample Interval Boundary

(0 - 70 Feet)

0-2 2-4 4-6 SXN

Mean Max Beta-Gamma: 212 123 123 153
Mean Max MT: 1.6 0 0.1 0.6

(70 - 145 Feet)

0-2 2-4 4-6 SXN

Mean Max Beta-Gamma: 124 113 109 115
Mean Max MT: 0 0 0 0

(145 - 225 Feet)

0-2 2-4 4-6 SXN

Mean Max Beta-Gamma: 418 174 158 250
Mean Max MT: 0 0.1 0 0

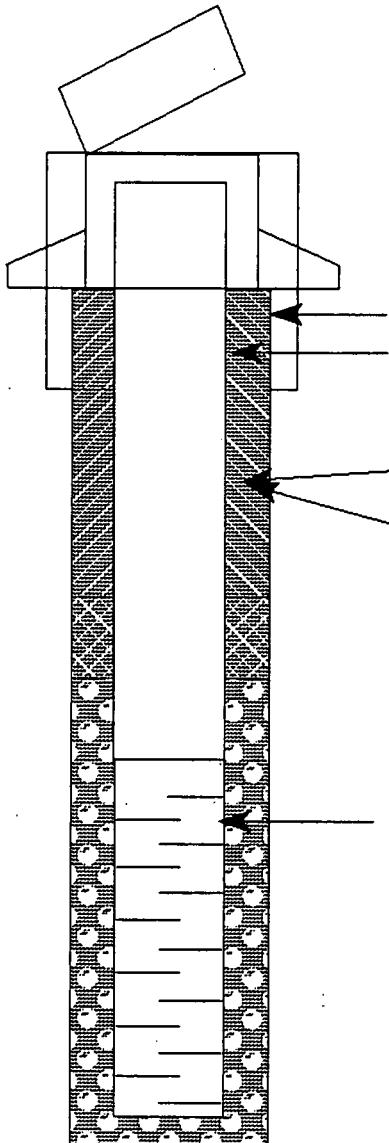
(3) - SPA 3 Survey Point

R173

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TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1934	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: 5-4-93	CONTRACTOR: Pennsylvania Drilling Co.
FIELD ENG./GEOL.: B. Mueller	DRILLED BY: Dan Jamison
TYPE OF SEAL: Grout	DRILLING METHOD: Hollow Stem Auger
DEVELOPEMENT METHOD: Bail-Surge-Bail	TYPE OF BIT: Hollow Stem Auger
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 572.60/5-7-93



580.12 ft, Top of Casing (Protective pipe)
579.57 ft, Top of Well

578.31 ft, Concrete Elevation

577.81 ft, Ground Elevation

8 in, Boring Diameter

2 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

4 ft, Top of Bentonite

7.5 ft, Bottom of Bentonite

9.5 ft, Top of Screen

Well Screen

2 in, Diameter

.01 in, Slot

10 Length (ft)

S. S. Material

1054

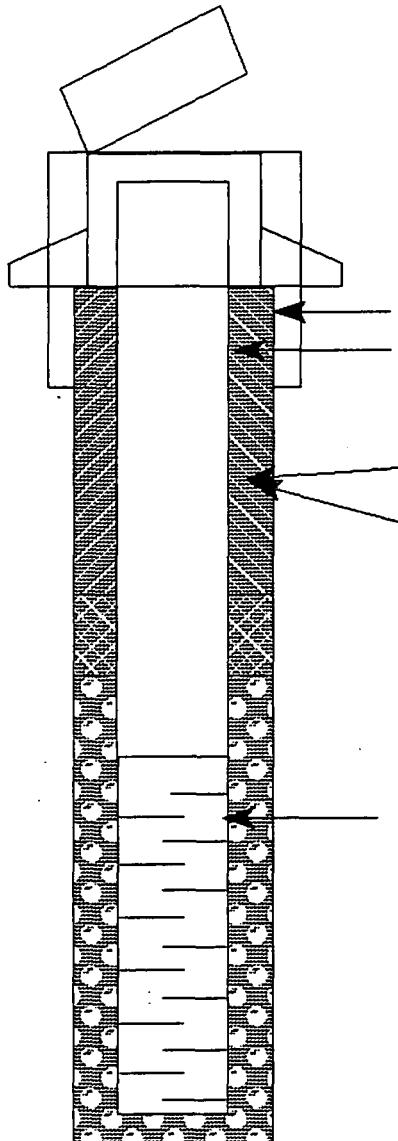
19.5 ft, Bottom of Screen

21 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environment Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1937	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: May 1, 1993	CONTRACTOR: Pennsylvania Drilling Co.
FIELD ENG./GEOL.: B. E. Muller	DRILLED BY: Dan Jamison
TYPE OF SEAL: Grout/Slurry	DRILLING METHOD: Hollow Stem Auger
DEVELOPEMENT METHOD: Surge-Bail	TYPE OF BIT: Auger
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 574.56/6-21-93



579.27 ft, Top of Casing (Protective pipe)

578.99 ft, Top of Well

577.31 ft, Concrete Elevation

576.81 ft, Ground Elevation

8 in, Boring Diameter

2 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

1.5 ft, Top of Bentonite

4.5 ft, Bottom of Bentonite

8.5 ft, Top of Screen

Well Screen

2 in, Diameter

.01 in, Slot

10 Length (ft)

S. S. Material

18.5 ft, Bottom of Screen

20.5 ft, Bottom of Boring

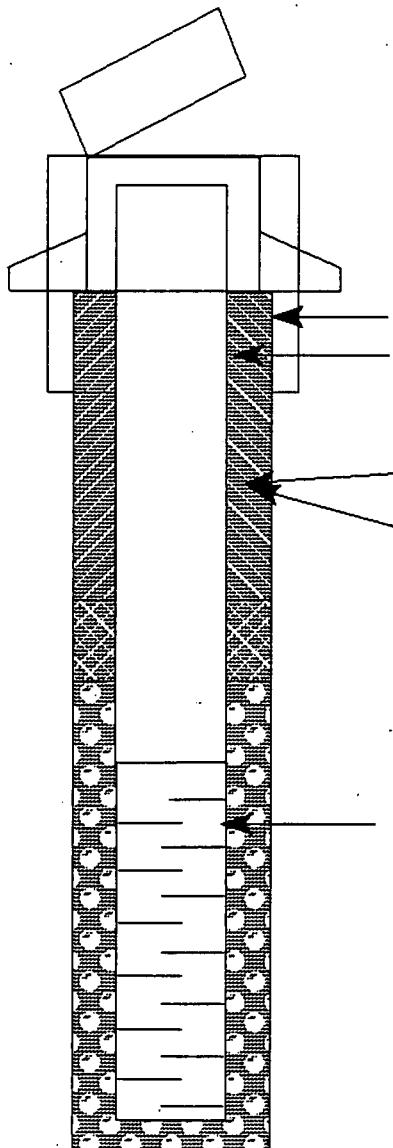
Note: Elevations in feet
above mean sea level.

1055

-3173

TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1940	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	5/24-93	CONTRACTOR:	Pennsylvania Drilling Co.
FIELD ENG./GEOL.:	Greg Ronczka	DRILLED BY:	Dan Jamison, Dan Arthur
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Hollow Stem Auguering
DEVELOPEMENT METHOD:	Surge-Bail	TYPE OF BIT:	Auger
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	572.75/6-21-93



279.11 ft, Top of Casing (Protective pipe)

578.95 ft, Top of Well

NA ft, Concrete Elevation

576.5 ft, Ground Elevation

8 in, Boring Diameter

2 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

3 ft, Top of Bentonite

7 ft, Bottom of Bentonite

9.2 ft, Top of Screen

Well Screen

2 in, Diameter

.01 in, Slot

18.9-9.2 Length

Screen Material

1056

18.9 ft, Bottom of Screen

19.5 ft, Bottom of Boring

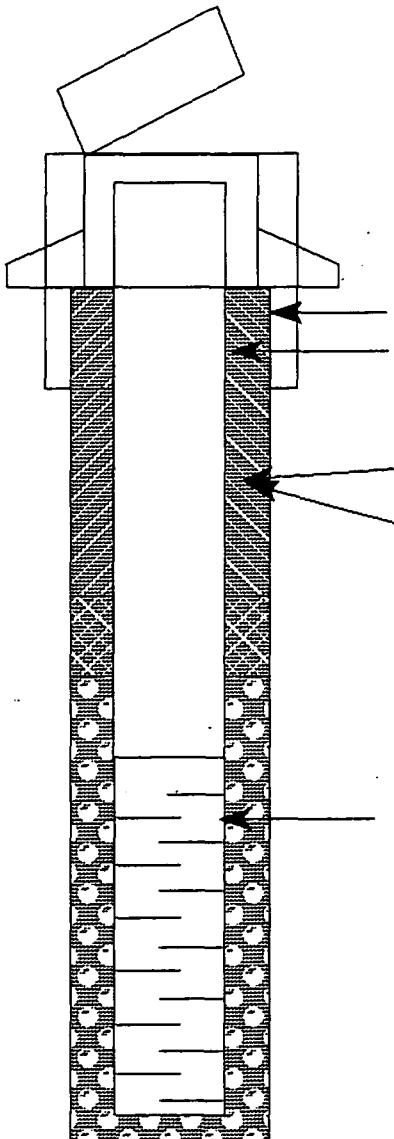
Note: Elevations in feet
above mean sea level.

5178

1

TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2935	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: 5-13-93	CONTRACTOR: Pennsylvania Drilling Co.
FIELD ENG./GEOL.: P. McCarron	DRILLED BY: Bob Erickson, Richard Thoms
TYPE OF SEAL: Colclay Grout	DRILLING METHOD: Cable Tool
DEVELOPEMENT METHOD: Bail-Surge-Bail	TYPE OF BIT: Ammer Percussion
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 521.96/7-8-93



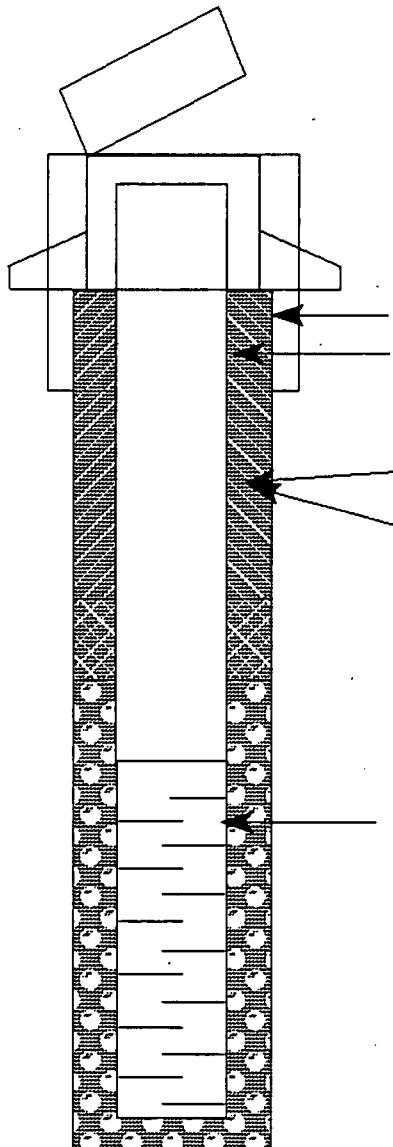
- 581.62 ft, Top of Casing (Protective pipe)
 581.13 ft, Top of Well
 579.69 ft, Concrete Elevation
 579.19 ft, Ground Elevation
 8 in, Boring Diameter
 4 in, Casing Diameter
 2.6 Bottom Protective Pipe
 S. S. Casing Material
 Grout
 Other _____
 1 ft, Top of Bentonite
 43 ft, Bottom of Bentonite
 53 ft, Top of Screen
 Well Screen
 4 in, Diameter
 .01 in, Slot
 15 Length (ft)
 S. S. Material
 68 ft, Bottom of Screen
 70 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

-5173

TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2936	COUNTY: Hamilton
PROJECT ID: 20.03.05	STATE: Ohio
DATE INSTALLED: May 14, 1993	CONTRACTOR: Pennsylvania Drilling Co.
FIELD ENG./GEOL.: K. Payne	DRILLED BY: Bob Johnson
TYPE OF SEAL: Grout/Slurry	DRILLING METHOD: Cable Tool
DEVELOPEMENT METHOD: Bail-Surge-Bail	TYPE OF BIT: Hammer Percussion Bit
SURVEY DATUM	SAND PACK TYPE: 10/20 Silica
	WATER LEVEL/DATE: 522.36/6-21-93



581.97 ft, Top of Casing (Protective pipe)

581.32 ft, Top of Well

NA ft, Concrete Elevation

579.6 ft, Ground Elevation

10 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other _____

.6 ft, Top of Bentonite

4.2 ft, Bottom of Bentonite

53 ft, Top of Screen

Well Screen

4 in, Diameter

.01 in, Slot

15 Length (ft)

S. S. Material

1058

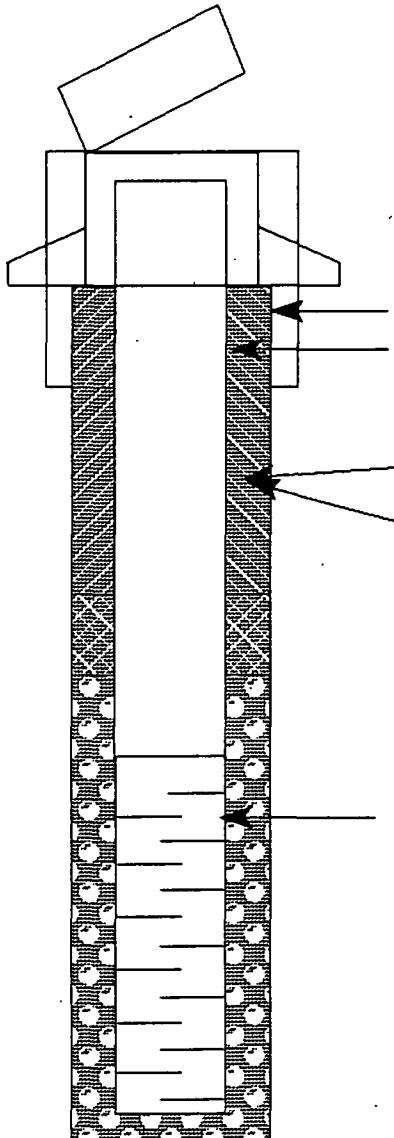
68 ft, Bottom of Screen

72 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	2939	COUNTY:	Hamilton
PROJECT ID:	20.03.05	STATE:	Ohio
DATE INSTALLED:	May 27, 1993	CONTRACTOR:	Pennsylvania Drilling
FIELD ENG./GEOL.:	D. McCarren	DRILLED BY:	Bob Erickson
TYPE OF SEAL:	Volclay	DRILLING METHOD:	Cable Tool
DEVELOPEMENT METHOD:	Bail-Surge-Bail	TYPE OF BIT:	Hammer Percussion
SURVEY DATUM		SAND PACK TYPE:	10/20 Silica
		WATER LEVEL/DATE:	522.10/8-2-93



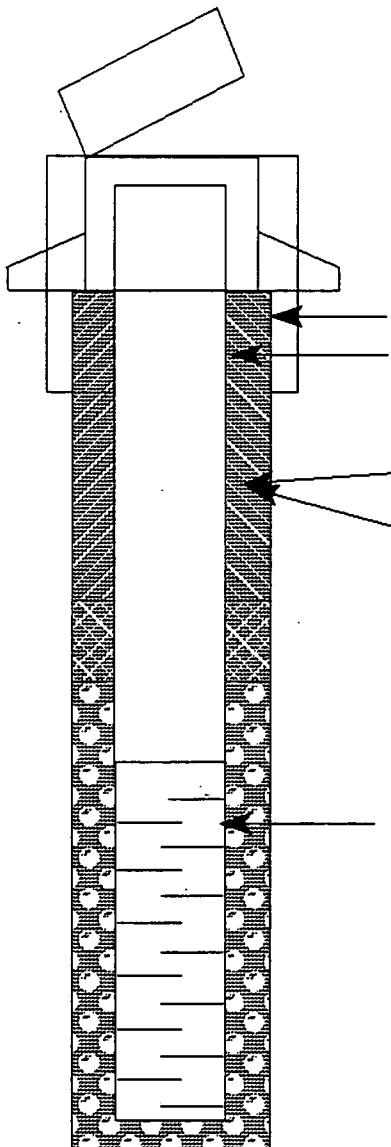
- 578.67 ft, Top of Casing (Protective pipe)
- 578.34 ft, Top of Well
- NA ft, Concrete Elevation
- 576.6 ft, Ground Elevation
- 10 3/8 in, Boring Diameter
- 4 in, Casing Diameter
- 2.5 Bottom Protective Pipe
- S. S. Casing Material
- Grout
- Other _____
- 0 ft, Top of Bentonite
- 42 ft, Bottom of Bentonite
- 52 ft, Top of Screen
- Well Screen
- 4 in, Diameter
- .01 in, Slot
- 15 Length (ft)
- S. S. Material
- 67 ft, Bottom of Screen
- 69 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

TABLE D-20
MONITORING WELL INSTALLATION RECORD

5178

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1039	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: April 9, 1988	CONTRACTOR: NA
FIELD ENG./GEOL.: M. Slusaski	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Cable-Tool Drilling
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



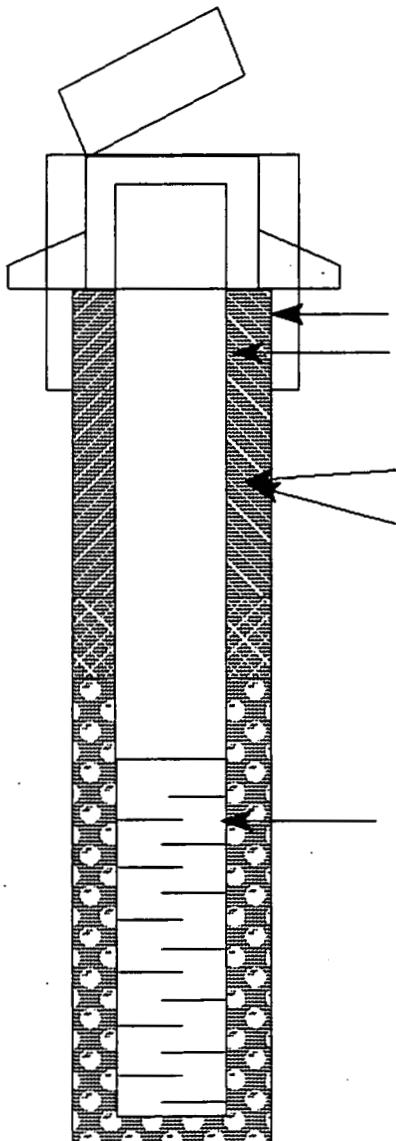
- 579.81 ft, Top of Casing (Protective pipe)
579.27 ft, Top of Well
NA ft, Concrete Elevation
577.4 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other Bentonite
0 ft, Top of Bentonite
8 ft, Bottom of Bentonite
13 ft, Top of Screen
 Well Screen
4 ID in, Diameter
.01 in, Slot
11 Length (ft)
S. S. Material
24 ft, Bottom of Screen
27 ft, Bottom of Boring
- 1060

Note: Elevations in feet
above mean sea level.

5178

FEMP-OU02-4 DRAFT
February 18, 1994TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1041	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	April 11, 1988	CONTRACTOR:	NA
FIELD ENG./GEOL.:	M. Slusarski	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Cable-Tool Drilling
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Flat Head Hammer
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA



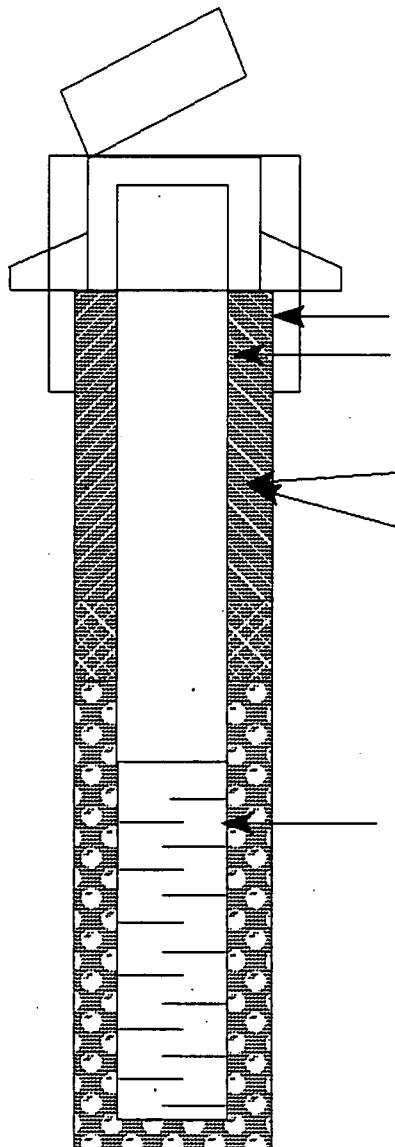
Note: Elevations in feet
above mean sea level.

- 583.62 ft, Top of Casing (Protective pipe)
583.13 ft, Top of Well
NA ft, Concrete Elevation
581.3 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
1.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other Bentonite
0 ft, Top of Bentonite
5 ft, Bottom of Bentonite
10 ft, Top of Screen
 Well Screen
4 ID in, Diameter
.01 in, Slot
10 Length (ft)
S. S. Material
20 ft, Bottom of Screen
22.5 ft, Bottom of Boring

5173

TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1042	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: April 21, 1988	CONTRACTOR: NA
FIELD ENG./GEOL.: M. Goldberg	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: NA
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



577.17 ft, Top of Casing (Protective pipe)

576.46 ft, Top of Well

575.4 ft, Concrete Elevation

574.9 ft, Ground Elevation

10 3/8 in, Boring Diameter

4 in, Casing Diameter

2.5 Bottom Protective Pipe

S. S. Casing Material

Grout

Other Bentonite

0 ft, Top of Bentonite

5 ft, Bottom of Bentonite

9 ft, Top of Screen

Well Screen

 in, Diameter

.01 in, Slot

10 Length (ft)
S. S. Material

1062

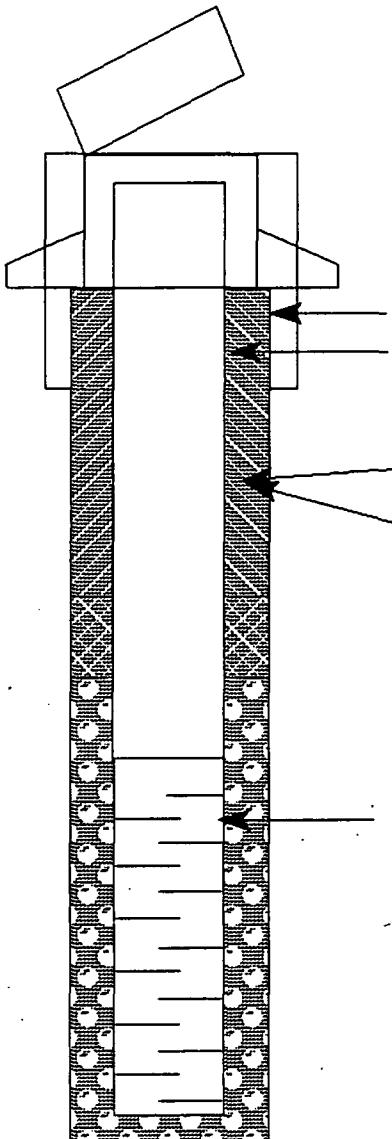
19 ft, Bottom of Screen
21 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

-5173

TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME:	Fernald Environmental Management Project	PROJECT LOCATION:	Fernald
BORING ID NO:	1134	COUNTY:	Hamilton
PROJECT ID:	NA	STATE:	Ohio
DATE INSTALLED:	May 4, 1989	CONTRACTOR:	NA
FIELD ENG./GEOL.:	L. Sinfield	DRILLED BY:	NA
TYPE OF SEAL:	Bentonite	DRILLING METHOD:	Auger
DEVELOPEMENT METHOD:	NA	TYPE OF BIT:	Auger Bit
SURVEY DATUM		SAND PACK TYPE:	NA
		WATER LEVEL/DATE:	NA



580.79 ft, Top of Casing (Protective pipe)

580.6 ft, Top of Well

NA ft, Concrete Elevation

579.8 ft, Ground Elevation

8 in, Boring Diameter

2 in, Casing Diameter

2.8 Bottom Protective Pipe

40 PVC Casing Material

Grout

Other _____

1 ft, Top of Bentonite

7 ft, Bottom of Bentonite

10 ft, Top of Screen

Well Screen

2 ID in, Diameter

.02 in, Slot

5.8 Length (ft)

40 PVC Material

15.8 ft, Bottom of Screen

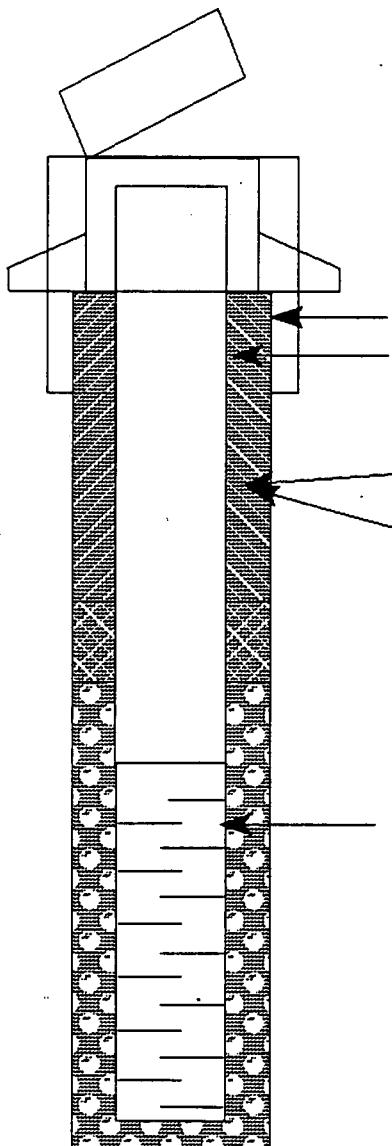
16.5 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

5173

TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1176	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: May 8, 1989	CONTRACTOR: NA
FIELD ENG./GEOL.: C. Gube, L. Adams	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Auger
DEVELOPEMENT METHOD: NA	TYPE OF BIT: 8-inch Hollow Auger
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



581.51 ft, Top of Casing (Protective pipe)

581.15 ft, Top of Well

NA ft, Concrete Elevation

579.7 ft, Ground Elevation

8 in, Boring Diameter

2 in, Casing Diameter

2.6 Bottom Protective Pipe

40 PVC Casing Material

Grout

Other _____

1 ft, Top of Bentonite

4 ft, Bottom of Bentonite

7 ft, Top of Screen

Well Screen

2 ID in, Diameter

.02 in, Slot

5 Length (ft)

40 PVC Material

1064

12 ft, Bottom of Screen

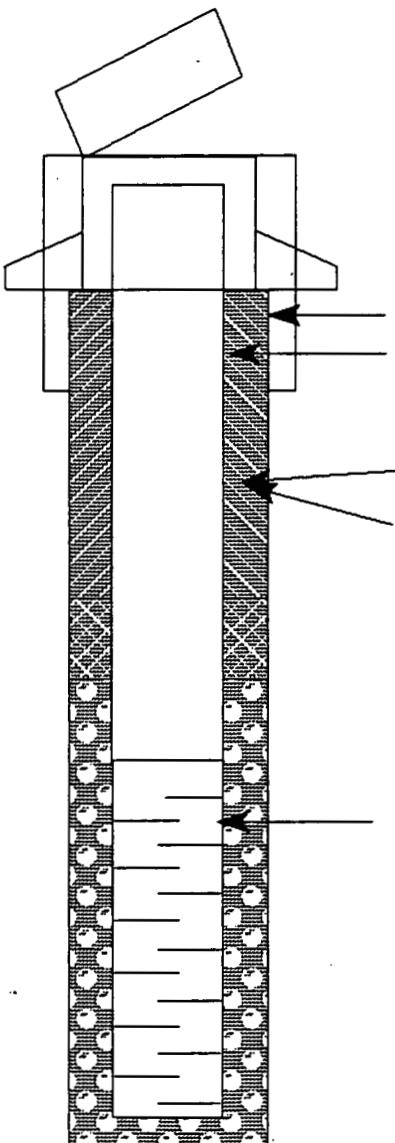
12 ft, Bottom of Boring

Note: Elevations in feet
{ above mean sea level.

5173

TABLE D-20
MONITORING WELL INSTALLATION RECORD

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 1210	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: May 3, 1989	CONTRACTOR: NA
FIELD ENG./GEOL.: C. Grube, E. Trollinger	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: Auger
DEVELOPEMENT METHOD: NA	TYPE OF BIT: 8-inch Hollow Stem Auger
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



Note: Elevations in feet
above mean sea level.

582.21 ft, Top of Casing (Protective pipe)
581.8 ft, Top of Well
579.41 ft, Concrete Elevation
578.91 ft, Ground Elevation
8 in, Boring Diameter
2 in, Casing Diameter
2.5 Bottom Protective Pipe
40 PVC Casing Material

Grout

Other _____

1 ft, Top of Bentonite

2.8 ft, Bottom of Bentonite

5.5 ft, Top of Screen

Well Screen

2 ID in, Diameter
.02 in, Slot

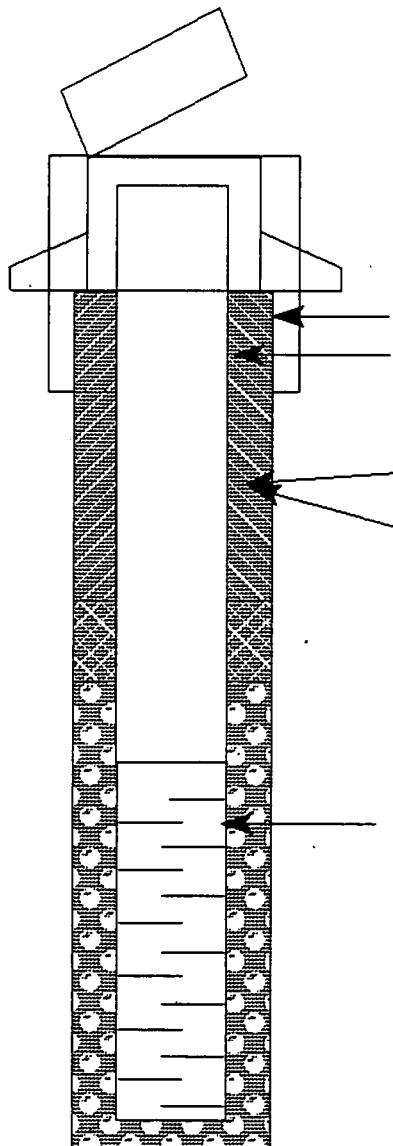
5 Length (ft)
40 PVC Material

10.5 ft, Bottom of Screen
10.5 ft, Bottom of Boring

TABLE D-20
MONITORING WELL INSTALLATION RECORD

-5178

PROJECT NAME: Fernald Environmental Management Project	PROJECT LOCATION: Fernald
BORING ID NO: 2042	COUNTY: Hamilton
PROJECT ID: NA	STATE: Ohio
DATE INSTALLED: April 19, 1988	CONTRACTOR: NA
FIELD ENG./GEOL.: M. Goldberg	DRILLED BY: NA
TYPE OF SEAL: Bentonite	DRILLING METHOD: NA
DEVELOPEMENT METHOD: NA	TYPE OF BIT: Flat Head Hammer
SURVEY DATUM	SAND PACK TYPE: NA
	WATER LEVEL/DATE: NA



- 577.58 ft, Top of Casing (Protective pipe)
577.2 ft, Top of Well
573.3 ft, Concrete Elevation
572.8 ft, Ground Elevation
10 3/8 in, Boring Diameter
4 in, Casing Diameter
2.5 Bottom Protective Pipe
S. S. Casing Material
 Grout
 Other _____
42.9 ft, Top of Bentonite
46 ft, Bottom of Bentonite
50 ft, Top of Screen
 Well Screen
4 in, Diameter
.01 in, Slot
16 Length (ft)
S. S. Material
66 ft, Bottom of Screen
68 ft, Bottom of Boring

Note: Elevations in feet
above mean sea level.

1066

TABLE D-21A
LIME SLUDGE PONDS
GROUNDWATER ELEVATION DATA^a, 1988 - 1992
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

D-21-1

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
1988	1039	NMT ^b	NMT	NMT	NMT	573.83	573.08	573.17	573.93	574.17	573.65	574.35	573.80
1988	1041	NMT	NMT	NMT	NMT	573.63	573.19	572.68	573.68	574.00	573.21	574.43	573.49
1988	1042	NMT	NMT	NMT	NMT	570.64	570.36	570.41	571.01	571.20	570.59	571.96	571.11
1988	1045	DRY	542.52	542.88	539.82	539.10	539.11	538.97	538.69	538.19	DRY	DRY	DRY
1988	2042	NMT	NMT	NMT	NMT	521.08	520.74	519.95	511.85	518.55	518.26	517.68	517.80
1989	1039	574.78	574.21	575.38	574.63	574.87	575.43	574.06	573.60	574.49	573.94	574.94	573.97
1989	1041	575.18	574.03	575.74	574.58	574.95	575.57	573.78	574.01	574.62	572.17	NMT	573.82
1989	1042	574.39	572.03	574.79	572.85	573.69	573.92	571.27	570.58	571.84	569.56	NMT	571.33
1989	1045	542.89	542.31	543.00	NMT	542.48	542.59	541.63	541.20	540.88	542.05	541.35	539.30
1989	1134	NMT	NMT	NMT	NMT	575.19	575.62	574.43	575.77	574.78	574.26	575.12	NMT
1989	1176	NMT	NMT	NMT	NMT	575.08	574.68	DRY	DRY	DRY	DRY	DRY	NMT
1989	1210	NMT	NMT	NMT	NMT	575.08	574.26	574.27	575.50	574.77	573.77	569.72	NMT
1989	1229	NMT	NMT	NMT	NMT	573.17	573.30	571.40	572.48	571.91	571.08	572.77	NMT
1989	2042	517.66	518.44	519.32	520.86	522.40	523.68	523.48	522.59	522.13	521.52	NMT	521.08
1990	1039	575.09	575.62	NMT	574.74	575.12	571.01	574.56	573.63	572.42	575.21	574.49	574.28
1990	1041	575.65	NMT	NMT	575.00	575.90	574.24	574.55	573.36	574.45	573.83	574.50	574.63
1990	1042	574.68	NMT	NMT	572.69	574.84	571.48	572.12	571.00	572.37	NMT	570.84	572.24
1990	1134	575.25	575.57	NMT	575.28	575.21	574.69	574.69	574.06	575.40	574.76	574.88	576.24
1990	1176	DRY	DRY	NMT	DRY	DRY	DRY	DRY	574.48	DRY	DRY	DRY	DRY
1990	1210	575.29	575.76	NMT	575.27	575.17	574.33	574.62	573.61	575.16	574.41	574.36	576.83
1990	1229	573.58	574.38	NMT	572.04	573.09	NMT	571.86	571.17	573.09	571.92	571.71	574.77

See footnotes at end of table

TABLE D-21A
(Continued)

11-5173

D-21-2

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Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
1990	2042	520.95	NMT	NMT	523.20	523.78	524.64	523.68	523.61	522.76	522.30	522.84	522.91
1991	1039	574.85	574.97	NMT	NMT	NMT	574.00	573.31	573.77	568.94	573.51	569.70	574.98
1991	1041	575.23	575.44	NMT	NMT	NMT	NMT	572.91	573.49	573.55	573.32	573.56	575.88
1991	1042	573.48	574.25	NMT	NMT	NMT	NMT	570.50	570.83	570.93	570.64	570.48	573.56
1991	1134	575.53	575.31	NMT	NMT	NMT	574.05	573.82	574.46	NMT	573.54	574.79	575.17
1991	1176	DRY	DRY	NMT	NMT	NMT	DRY	DRY	DRY	574.47	DRY	DRY	DRY
1991	1210	574.93	574.67	NMT	NMT	NMT	573.47	572.75	573.82	573.49	573.85	573.29	575.31
1991	1229	572.46	572.07	NMT	NMT	NMT	571.17	570.75	571.60	571.61	570.88	570.65	571.67
1991	2042	524.55	524.85	NMT	NMT	NMT	NMT	523.09	522.22	521.47	521.17	520.20	519.40
1992	1039	575.30	574.87	574.48	574.70	NMT	574.36	574.77	574.11	574.62	574.71	574.64	574.62
1992	1041	576.41	575.52	574.91	575.42	NMT	574.89	575.58	574.47	575.56	575.63	575.54	575.33
1992	1042	574.88	573.06	572.06	573.23	NMT	572.15	573.48	571.36	572.21	572.34	573.40	572.13
1992	1134	574.49	575.39	575.15	NMT	NMT	NMT	573.39	NMT	NMT	575.45	NMT	NMT
1992	1176	DRY	DRY	DRY	NMT	NMT	NMT	DRY	NMT	NMT	DRY	NMT	NMT
1992	1210	575.14	575.26	574.94	NMT	NMT	NMT	575.48	NMT	NMT	574.88	NMT	NMT
1992	1229	572.10	572.44	572.24	572.51	NMT	571.91	573.22	571.45	571.33	571.80	572.70	571.73
1992	2042	519.20	519.31	519.06	518.96	NMT	519.44	519.68	520.10	519.79	519.60	519.66	520.06

MISCELLANEOUS GROUNDWATER ELEVATION DATA

1988	1025	NMT	569.82	570.33	570.04	561.54	568.34	570.85	571.07	571.16	570.88	570.75	570.63
1988	1064	NMT	559.92										
1988	1080	NMT	NMT	NMT	NMT	560.15	567.24	567.55	560.89	567.71	567.83	567.73	568.18
1988	1081	575.10	575.95	576.69	576.89	575.49	575.35	575.05	575.04	574.95	574.71	574.68	575.05
1988	2068	517.88	518.34	519.34	520.10	520.17	519.75	518.81	518.17	517.52	517.13	516.50	516.58
1989	1025	570.34	563.52	570.48	569.89	571.37	571.73	571.75	571.95	DRY	570.27	571.62	570.84

See footnotes at end of table

TABLE D-21A
(Continued)

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
1989	1064	566.90	577.59	577.35	577.55	577.06	574.76	573.94	NMT	573.44	571.12	573.28	572.46
MISCELLANEOUS GROUNDWATER ELEVATION DATA (continued)													
1989	1080	568.61	568.40	567.77	NMT	568.95	568.74	568.06	568.05	566.85	566.62	568.66	NMT
1989	1081	575.73	575.87	576.69	576.65	576.72	575.25	575.64	570.27	575.51	575.35	575.53	575.10
1989	2068	516.43	517.38	518.45	520.65	522.20	523.52	522.80	521.94	521.14	519.17	519.98	519.75
1989	2106	NMT	518.78	520.45	522.23	523.09	523.43	522.40	521.51	NMT	519.07	520.35	519.97
1990	1025	570.63	NMT	NMT	570.95	570.38	571.63	571.84	567.72	572.08	572.27	569.76	571.57
1990	1064	573.71	576.65	NMT	575.50	575.41	574.95	NMT	573.03	572.98	565.36	574.30	576.57
1990	1080	567.98	568.72	NMT	568.72	564.65	568.64	NMT	568.37	568.69	567.36	NMT	569.46
1990	1081	575.63	563.32	NMT	576.00	577.49	576.13	576.07	575.79	575.71	577.05	575.75	NMT
1990	2068	519.49	520.14	NMT	522.23	522.74	523.68	523.02	522.66	521.59	521.59	521.85	521.85
1990	2106	520.57	521.75	522.81	523.05	524.29	523.65	523.20	522.32	521.84	522.66	522.35	522.62
1990	2385	NMT	NMT	NMT	NMT	524.11	519.57	523.73	523.07	522.22	522.46	522.73	522.83
1990	2397	NMT	NMT	NMT	NMT	NMT	NMT	NMT	522.61	521.93	521.99	521.99	522.21
1991	1025	571.37	566.77	NMT	NMT	NMT	570.50	571.58	571.89	NMT	572.11	572.19	571.59
1991	1032	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	559.11	559.10	559.49
1991	1064	579.80	579.37	579.57	NMT	NMT	575.18	NMT	573.24	NMT	NMT	NMT	NMT
1991	1080	569.21	568.91	NMT	NMT	NMT	565.70	564.22	NMT	NMT	NMT	NMT	NMT
1991	1081	NMT	NMT	NMT	NMT	NMT	576.54	NMT	NMT	NMT	NMT	NMT	NMT
1991	1907	NMT	NMT	NMT	NMT	NMT	NMT	DRY	NMT	NMT	NMT	NMT	NMT
1991	2068	524.12	524.08	524.14	NMT	NMT	523.41	521.98	520.74	NMT	519.36	518.68	517.85
1991	2106	524.05	522.99	524.35	NMT	NMT	523.34	NMT	521.21	520.90	NMT	NMT	NMT
1991	2385	524.71	524.10	524.73	NMT	524.34	NMT	522.45	521.71	521.28	520.40	519.74	519.00

See footnotes at end of table

TABLE D-21A
(Continued)

Year	Well No.	January	February	March	April	May	June	July	August	September	October	November	December
1991	2397	524.46	524.38	524.26	NMT	NMT	523.38	521.97	521.20	520.62	519.79	519.08	518.27
MISCELLANEOUS GROUNDWATER ELEVATION DATA (continued)													
1992	1025	572.19	568.27	NMT	NMT	NMT	570.89	565.54	572.03	572.39	571.88	571.64	571.29
1992	1032	561.02	559.05	559.09	559.50	NMT	560.49	561.05	559.17	559.46	560.17	560.88	559.16
1992	2068	517.60	517.60	517.44	517.56	NMT	517.29	518.63	519.52	519.07	518.71	518.68	519.37
1992	2385	518.98	519.05	518.89	519.23	NMT	519.20	NMT	519.91	519.87	519.47	519.49	520.25
1992	2397	517.99	518.07	517.95	518.18	NMT	518.63	518.91	NMT	519.33	519.01	519.00	519.63

^aFeet above Mean Sea Level

^bNo measurement taken

TABLE D-21B
LIME SLUDGE PONDS
WATER ELEVATION DATA^a, 1993
PHASE II FIELD INVESTIGATION
OPERABLE UNIT 2 REMEDIAL INVESTIGATION
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Well ID	3/18/93	3/23/93	4/09/93	4/19/93	5/07/93	5/19/93	6/02/93	6/21/93	7/08/93	7/19/93	8/02/93	8/16/93
1039	574.75	575.35	574.44	574.83	574.51	571.41	570.67	574.29	573.85	570.54	570.05	573.63
1041	575.63	576.27	575.09	575.73	574.87	574.71	573.47	574.61	574.24	573.67	572.93	573.60
1042	574.10	574.43	572.53	574.43	572.26	572.61	571.20	571.88	571.17	570.81	570.40	570.64
1134	575.52	575.59	575.23	575.49	575.33	571.98	574.31	574.94	574.60	574.21	573.81	574.37
1176	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1210	573.33	575.17	575.23	575.29	574.67	574.52	573.89	574.35	574.11	574.23	573.18	573.66
1229	573.89	572.51	571.94	573.43	572.07	NMT ^b	571.49	NMT	571.65	571.29	570.67	571.51
1934	NMT	NMT	NMT	NMT	572.60	573.52	NMT	573.21	572.62	572.36	571.77	572.40
1937	NMT	NMT	NMT	NMT	NMT	NMT	NMT	574.56	573.56	573.10	572.40	573.33
1940	NMT	NMT	NMT	NMT	NMT	NMT	NMT	572.75	571.81	571.58	570.85	571.12
2042	521.24	521.61	522.00	522.18	527.35	522.48	522.65	522.45	522.18	522.06	521.84	521.46
2935	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	521.96	521.87	521.82	521.39
2936	NMT	NMT	NMT	NMT	NMT	NMT	NMT	522.36	522.03	521.88	521.84	521.41
2939	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	NMT	522.10	521.66

^aFeet above Mean Sea Level

^bNMT - No measurement taken

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* U.S. GOVERNMENT PRINTING OFFICE: 1994-550-232/00174

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